Tools to Support Classroom Settings: Perceptions of EFL Students on ICT Usage during Pre-Service Teaching Program

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1. Introduction

Information Communication and Technology (ICT), which is so rapid in this era of globalization, cannot again influence education. Global demands force the education world to always adjust technology with efforts to improve education. Teachers increase the use of the internet to help them prepare material used for learning in the classroom. The use of technology as a learning medium helps convey learning material, especially in English learning. ICT in school education is considered as one of the important tools to make education learner-centric and helps to reduce the digital divide between different socio-economic classes in a developing country like Indonesia.

Moreover, Practicum teachers ideally must have the ability and competence to use ICT for classroom learning. Equipping practice teachers with technological skills and knowledge is now considered a vital element of any teacher training program to train new teachers to meet the educational demands of the 21st century. Therefore, it is important to establish whether these teachers apply these skills when they first arrive in the field and, otherwise, what could be the factors that hinder them (Tshepo and Abraham, 2017).

Also, this time almost all teacher training programs worldwide have a technology training component (Yuksel and Kavanoz, 2011). Therefore, compared to their predecessors, today's pre-service teachers are better positioned to make technology part of their teaching due to training. These new teachers do not have to unlearn the teaching habits that have been established for a long time. They could start with innovative teaching techniques that support the use of technology. This is why it is essential to focus on where new teachers begin their teaching to establish them towards revolutionary teaching.

Information and telecommunications have very important and real, especially since the community is currently heading towards the scientific community. ICT is a demand that prospective teachers must-have in the future. Teachers who can use ICT will greatly help in the learning process in the classroom because technology in principle is to facilitate someone in doing something. Now students are intense and familiar with the use of ICT, including the use of smartphones and PCs to find the references they need in learning English. The practicum teachers must update in obtaining and
providing information so that his knowledge develops to
the fullest. Students will be able to get something better
and more accurate when they can get access to
information through the internet. Teachers/Practicum
teachers also need more updates on ICT knowledge to
make good teaching and create the best teaching for
students. Because most students already use ICT a lot,
smartphones, especially in their daily activities.

Therefore, based on the ideas mentioned above, the
researcher will investigate Perceptions of English
Education Department Students on ICT Use During
Practice Teaching at Classroom Context with research
questions as follow:

1. How are Perceptions of English Education
   Department Students on ICT Use During Practice
   Teaching at Classroom Context

Thus, this study attempts that perceptions on the use
of ICT in the classroom context are high level it means
good perceptions in learning and can be used as EFL
learning strategies. This can be an effective
supplementary material to make the learning process
more interesting for students.

2. Methods

The study in this research is quantitative research.
Creswell (2014) states that quantitative research is an
approach for testing objective theories by examining the
relationship between the variables. These variables, in
turn, can be measured, typically on instruments, so that
numbered data can be analyzed using statistical
procedures.

This quantitative research was designed as a survey
study. Survey research provides a quantitative or numeric
description of trends, attitudes, or opinions of a
population by studying that population sample. The
researcher was use cross-sectional studies questionnaires
for data collection with the intent of generalizing from a
sample to a population. In this study, researchers used
one variable, namely the Practicum Teachers Perceptions
use of ICT in the Classroom in Teaching English. The
instrument in this study was a questionnaire. Besides the
essay questionnaire, the content is open-ended question
practicum teacher used ICT in the classroom context.
This questionnaire was distributed to the faculty of
education and training of Universitas Lancang Kuning
teachers, especially Practicum Teachers.

This research was conducted in May 2020 in the
English Department (Practicum teachers) Faculty of
Education and Teachers Training Universitas Lancang
Kuning Academic Year 2019/2020. The sample
consists of 64 students from practicum teachers’ students
in the seventh semester.

In order to collect the data, the researcher used an
online questionnaire that was Google Form. The
questionnaire consisted of 25 items, such as an open-
ended questionnaire using ICT at the classroom context,
practicum teachers’ knowledge about ICT, the Perception
of ICT in the classroom, and Practicum Teachers Opinion
Using ICT. Also, the researcher used the Likert scale for
collecting the data. It means every item in the
questionnaires consists of 5 choices, that is “Strongly
Agree,” “Agree”, “Neutral”, “Disagree”, and “Strongly
Disagree”.

The data collected was analyzed using the SPSS
statistical package. A descriptive statistics analysis was
carried out to see the score of teachers’ and students’
answers.

After analyzing the data by using Descriptive
Statistics, the researcher continued to analyzing it by
categorize them into Katz and Kahn range Likert scale
(1978) as follows:

3. Findings and Discussion

How are Perceptions of English Education
Department Students on ICT Use During Practice
Teaching at Classroom Context?

Before answer, the research design, the researcher
gets answers from respondents on the use of media in
classroom learning.

Table 1. Use ICT in the Classroom in Teaching and
Learning Activities

|                | Frequency | Percent | Valid Percent | Cumulative Percent |
|----------------|-----------|---------|---------------|--------------------|
| Valid          | No        | 6       | 9.4           | 9.4                |
| Yes            | 58        | 90.6    | 90.6          | 100.0              |
| Total          | 64        | 100.0   | 100.0         |                    |

In this study, we can see table 1. The researcher found
that of 64 respondents 90.6%, 58 students who used ICT
in teaching in class, were used for learning media such
as; Computers, Projectors, PowerPoint, Smartphones,
Video, Audio, and Picture. And 9.4% of 100% with a
total of 6 students do not use ICT in classroom learning,
they only use whiteboard and textbooks.
Chart 1. Chart Percentage Practicum Teachers use ICT

![Chart 1](image)

The chart percentage respondents use ICT, and blue color stated 90.6% practicum teachers use ICT in the Classrooms Context, and red color 9.4% practicum does not use ICT at Classroom Context.

Chart 2. Percentage Media Use ICT by Practicum Teachers

![Chart 2](image)

The media Information Communication and Technology (ICT) used by practicum teachers in teaching in the classroom context: From 64 respondents who used computers in learning activities as many as 28 respondents with a percentage value of 43.8%. Computer/laptop is one of the tools used by almost all teachers for educational purposes. In this indicator, ten questions were asked to the respondents of this research. To sum up the perceptions of ICT used in the classroom context by respondents (practicum teachers).

Table 2. ICT can be used to Create Learning Strategies for Teaching Materials Effectively.

|     | Frequency | Percent | Cumulative Percent | Mean | Std. Dev |
|-----|-----------|---------|--------------------|------|----------|
| Valid | SD        | 2       | 3.1                | 3.1  |           |
|      | N         | 6       | 9.4                | 12.5 |          |
|      | A         | 30      | 46.9               | 59.4 | 4.22     |
|      | SA        | 26      | 40.6               | 100.0| 0.863    |
| Total |           | 64      | 100.0              |      |          |
Table 2 indicated the statement is “ICT can be used to create learning strategies for teaching material effectively” 30 respondents choose “Agree” with a score percentage of 46%. And then, the Respondents claims that ICT is very useful to use in learning strategies in the classroom context. But, the researcher found 3% of respondents choose the negative answer “Strongly Disagree”. For standard deviation is 0.863. The score of standard deviation means that all of the answers from respondents are same or homogenous. In addition, for average of practicum teachers score is 4.22, it means this statement claims ICT can be used to create learning strategies for teaching material effectively at class EFL categorized High.

Table 3. ICT can Spread Knowledge and Information Faster than Traditional Method

| Frequency | Percent | Cumulative Percent | Mean | Std. Dev |
|-----------|---------|-------------------|------|----------|
| Valid SD  |         |                   |      |          |
| N         | 6       | 9.4               | 12.5 |          |
| A         | 27      | 42.2              | 54.7 | 4.27     | 0.877   |
| SA        | 29      | 45.3              | 100.0|          |
| Total     | 64      | 100.0             |      |          |

Table 3 shows, From 64 respondents, 45% choose “Strongly Agree” in a statement “ICT can spread knowledge and information faster than traditional methods,” and 42% of respondents also choose positive answers “Agree” that ICT can spread knowledge and information faster. But, two respondents negative answer “Strongly Disagree” with scale 3%. This is a low score from the respondent answer than a positive answer. For standard deviation is 0.877. The score of standard deviation means that all of the answers from respondents are the same or homogenous. Also, for an average of practicum teachers score is 4.27, ICT is spread knowledge and information faster than traditional categorized High.

Table 4. ICT can Facilitate Practicum Teachers for Student Assessment

| Frequency | Percent | Cumulative Percent | Mean | Std. Dev |
|-----------|---------|-------------------|------|----------|
| Valid SD  |         |                   |      |          |
| D         | 1       | 1.6               | 1.6  |          |
| N         | 13      | 20.3              | 23.4 | 4.19     | 0.924   |
| A         | 32      | 50.0              | 73.4 |          |
| SA        | 17      | 26.6              | 100.0|          |
| Total     | 64      | 100.0             |      |          |

Table 4 shows, 32 respondents choose “Agree” with a scale 50% in a statement “ICT can facilitate practicum teachers for student assessment”. Respondents using ICT to calculate score students because to save time and be more accurate than manual calculation. And then, 26% of respondents choose “Strongly Agree” because score positive answer more than negative answer score only 1.6% “Strongly Disagree” and “Disagree”. For standard deviation is 0.924. The score of standard deviation means that all of the answers from respondents are the same or homogenous. In addition, for an average of practicum teachers score is 4.19, it means that ICTs can facilitate practicum teachers for student assessment is categorized into High.
Table 5. ICT (Referring to Computers, Videos, Hardware, Software, and Networks) is Beneficial to Add my Knowledge and Skills to Practicum Teachers

| Frequency | Percent | Cumulative Percent | Mean  | Std. Dev |
|-----------|---------|--------------------|-------|----------|
| Valid SD  | 2       | 3.1                | 3.1   |          |
| N         | 9       | 14.1               | 17.2  |          |
| A         | 28      | 43.8               | 60.9  | 4.16     | 0.895 |
| SA        | 25      | 39.1               | 100.0 |          |
| Total     | 64      | 100.0              |       |          |

Table 5 shows the statement is “ICT add my knowledge and skills as a practicum teacher” 28 respondents choose “Agree” with a percentage of 43%. Using ICT referring to a computer, video, hardware, software, and network have benefits to add respondents knowledge and skills as practicum teachers in the classroom context. Because only 3% choose the negative answer “Strongly Dissagree”, the researcher found a positive answer is a high score. For standard deviation is 0.895. The score of standard deviation means that all of the answers from respondents are the same or homogenous. In addition, for an average of practicum teachers score is 4.16, it means that using ICT is beneficial to add participant knowledge and skills as a practicum teacher is categorized into High. So, using ICT is beneficial to add participant knowledge and skills as practicum teachers.

Table 6. In Classroom Context, ICT is a More Powerful Tool than Discussion in the Classroom Without using ICT

| Frequency | Percent | Cumulative Percent | Mean  | Std. Dev |
|-----------|---------|--------------------|-------|----------|
| Valid SD  | 1       | 1.6                | 1.6   |          |
| D         | 2       | 3.1                | 4.7   |          |
| N         | 16      | 25.0               | 29.7  | 3.94     | 0.906 |
| A         | 26      | 40.6               | 70.3  |          |
| SA        | 19      | 29.7               | 100.0 |          |
| Total     | 64      | 100.0              |       |          |

Table 6 shows, from 64 respondents, 40% choose “Agree” with the statement is “ICT is a more powerful tool than discussion in the classroom without using ICT”. Positive answer score higher than negative answer only 1% “Strongly Disagree” and 3% “Disagree”. The researcher claim discusses learning the material more effectively uses ICT than traditional tools. Using ICT discussion can be everywhere, not only in a classroom context. For standard deviation is 0.906.

The score of standard deviation means that all of the answers from respondents are the same or homogenous. In addition, for an average of practicum teachers score is 3.94, it means that ICT is a more powerful tool than discussion in the classroom without using ICT is categorized into Moderate. So, “ICT is a more powerful tool than discussion in the classroom without using ICT” is successful to used ICT in the classroom context as learning media.
Table 7. ICT can be used as a Sophisticated Teaching Tool in the Classroom

| Frequency | Percent | Cumulative Percent | Mean | Std. Dev |
|-----------|---------|--------------------|------|---------|
| Valid SD  | 2       | 3.1                | 3.1  |         |
| N         | 13      | 20.3               | 23.4 |         |
| A         | 21      | 32.8               | 56.2 | 4.14    | 0.957   |
| SA        | 28      | 43.8               | 100.0|         |         |
| Total     | 64      | 100.0              |      |         |

Table 7 shows, the researcher asked the question “ICT can be used as a sophisticated teaching tool in the classroom” for 64 respondents. 43% answer “Strongly Agree,” and 32% respond “Agree”. While 3% of respondents choose the negative answer “Strongly Disagree”. The researcher gets a high score positive answer. ICT can be used as a sophisticated teaching tool in the classroom, and respondents assume that using ICT can make teaching and learning more modern. Teaching and learning used ICT, and it is an attempt to involve and use professional knowledge possessed by teachers to achieve curriculum goals. For standard deviation is 0.957. The score of standard deviation means that all of the answers from respondents are the same or homogenous. In addition, for an average of practicum teachers score is 4.14, it means that ICT is tools sophisticated to support learning English foreign language in a classroom context is categorized into High. So, ICT is tools sophisticated to support learning English foreign language in a classroom context.

Table 8. ICT is More Effective for Teaching and Learning in Class than Books and Other Printed Materials

| Frequency | Percent | Cumulative Percent | Mean | Std. Dev |
|-----------|---------|--------------------|------|---------|
| Valid SD  | 2       | 3.1                | 3.1  |         |
| N         | 19      | 29.7               | 32.8 |         |
| A         | 26      | 40.6               | 73.4 | 3.88    | 0.917   |
| SA        | 17      | 26.6               | 100.0|         |         |
| Total     | 64      | 100.0              |      |         |

Table 8 shows, with the statement, is “ICT is more effective for teaching and learning in class than books and other printed materials”. The researcher found 43 respondents choose the positive answer with scale 40% “Agree” and 26% “Strongly Agree”. Like using video or audio is more effective so that make to motivate the student to get additional material which is not in the book. From 64 respondents, 3% answer “Strongly Disagree” because in school not using ICT as a media to support students’ motivation or nothing facility ICT in that school. For standard deviation is 0.917. The score of standard deviation means that all of the answers from respondents are same or homogenous. In addition, for average of practicum teachers score is 3.88, ICT is more effective for teaching and learning in class than books and other printed materials is categorized into Moderate. So, perceptions of ICT use are more effective for teaching and learning in class than books and other printed materials.
Table 9. ICT Gives Important Contributions for Human Society in General

|       | Frequency | Percent | Cumulative Percent | Mean | Std. Dev |
|-------|-----------|---------|--------------------|------|----------|
| Valid | SD        | 2       | 3.1                | 3.1  |          |
|       | N         | 9       | 14.1               | 17.2 |          |
|       | A         | 31      | 48.4               | 65.6 | 4.11     | 0.875   |
|       | SA        | 22      | 34.4               | 100.0|          |         |
| Total |           | 64      | 100.0              |      |          |

From table 9, the statement is “ICT gives important contributions for human society in general”. 31 respondents choose “Agree” to answer the question, like parents of students, can get information faster about the new rules in school. And then, 34% respond than “Strongly Agree” with ICT give an important contribution to human society. While a negative answer “Strongly Disagree” has 3%. For standard deviation is 0.875. The score of standard deviation means that all of the answers from respondents are the same or homogenous. In addition, for average of practicum teachers score is 4.11, it means that ICT gives important contributions to human society, in general, is categorized into High. So, ICT gives important contributions to human society in general.

Table 10. ICT Offer Educational or Teaching Values in the Classroom Context

|       | Frequency | Percent | Cumulative Percent | Mean | Std. Dev |
|-------|-----------|---------|--------------------|------|----------|
| Valid | SD        | 2       | 3.1                | 3.1  |          |
|       | N         | 20      | 31.2               | 34.4 |          |
|       | A         | 25      | 39.1               | 73.4 | 3.86     | 0.924   |
|       | SA        | 17      | 26.6               | 100.0|          |         |
| Total |           | 64      | 100.0              |      |          |

Table 10 shows, this research, the researcher found 42 respondents choose the positive answer with scale 39% “Agree” and 26% “Strongly Agree” from statement “ICT offer educational / teaching values in classroom context”. This is a high score that responds that ICT has positive values in teaching and learning at school. Besides, 20 respondents choose a “Neutral” answer with a scale of 31% and the negative answer “Strongly Disagree” has 3%. Respondents claim that using ICT in learning has a positive impact on students. For standard deviation is 0.924. The score of standard deviation means that all of the answers from respondents are same or homogenous. In addition, for average of practicum teachers score is 3.86, it means that ICT is offer for educational / teaching values is categorized into Moderate. So, ICT is offer for educational / teaching values in the classroom context.
Table 11. ICT Tools can Facilitate Practicum Teachers to do Assessment for Students

| Frequency | Percent | Cumulative Percent | Mean | Std. Dev |
|-----------|---------|--------------------|------|----------|
| Valid SD  | 2       | 3.1                | 3.1  |          |
| N         | 12      | 18.8               | 21.9 |          |
| A         | 29      | 45.3               | 67.2 | 4.05     | 0.898   |
| SA        | 21      | 32.8               | 100.0|          |         |
| Total     | 64      | 100.0              |      |          |         |

Table 11 shows, 29 respondents choose “Agree” with the scale 45% in the statement “ICT tools can facilitate practicum teachers to assess students”. Respondents using ICT to calculate score students because to save time and be more accurate than manual calculation. And then, 32% respondents choose “Strongly Agree” because score positive answer more than negative answer score only 3% “Strongly Disagree”. For standard deviation is 0.898. The score of standard deviation means that all of the answers from respondents are same or homogenous. In addition, for average of practicum teachers score is 4.05, it means that ICT can facilitate practicum teachers to do assessments for students is categorized into High. So, use ICT can facilitate practicum teachers to do assessments for students.

Table 12. (Mean Table)
Perceptions Practicum Teachers use ICT at Classroom Context

| Number of Question | Statements                                                                 | N   | M    | GRAND MEAN |
|--------------------|-----------------------------------------------------------------------------|-----|------|------------|
| Q2                 | As far as I know, ICT can be used to create learning strategies for teaching materials effectively |     | 4.22 |            |
| Q3                 | I know that ICT can spread knowledge and information faster than traditional methods |     | 4.27 |            |
| Q4                 | I know that ICT can facilitate practicum teachers for student assessment    |     | 4.19 |            |
| Q9                 | ICT (referring to computers, videos, hardware, software, and networks) is beneficial to add my knowledge and skills as a practicum teachers |     | 4.16 |            |
| Q10                | In Classroom Context, ICT is a more powerful tool than discussion in the classroom without using ICT | 64  | 3.94 | 4.08       |
| Q11                | ICT can be used as a sophisticated teaching tool in the classroom.           |     | 4.14 |            |
| Q12                | In my view, ICT is more effective for teaching and learning in class than books and other printed materials |     | 3.88 |            |
I think ICT gives important contributions for human society in general.

I think ICT offer educational / teaching values in classroom context.

I know that ICT tools can facilitate practicum teachers to do assessment for students.

| Q13 | I think ICT gives important contributions for human society in general. | 4.11 |
|-----|-----------------------------------------------------------------------|------|
| Q14 | I think ICT offer educational / teaching values in classroom context. | 3.86 |
| Q15 | I know that ICT tools can facilitate practicum teachers to do assessment for students. | 4.05 |

Table 12 shows, the mean of questionnaire about the practicum perceptions use ICT in the classroom context. From 64 respondents researcher found that “I know that ICT can spread knowledge and information faster than traditional methods” have “higher mean” score (4.27) in number of question Q3. The use ICT in learning process can spread knowledge and information faster. From this statement, the teacher can provide information to students quickly. Also, students will get information learning material quickly from the teachers. Besides, statements that have a mean <4.00 this is “low mean” namely “I think ICT offer educational/teaching values in classroom context” with mean score (3.86) Q14. In addition, the researcher used SPSS 16 to analyze the data to get the scores of descriptive statistics. The scores of it can be seen as follow:

| Sum  | 40.82 |
| Mode | 3.86  |
| Median | 4.12 |
| Mean  | 4.08  |
| Variance | .021 |
| Standard Deviation | 0.144 |
| Range | Minimum: 3.86 Maximum: 4.27 |

Based on the result of descriptive statistics above, it can be seen that generally, the perceptions of English education department students on ICT use during practice teaching at classroom context in term of learning models is categorized into high level. In addition, the table above shows that the total of practicum teacher scores of using ICT at classroom context 40.82, mode of practicum teachers score is 3.86, the median of practicum teachers score 4.12, the variance of students’ score is .021, and for standard deviation is 0.144. The score of standard deviation means that all of the answers from respondents are same or homogenous. In addition, for an average of practicum teachers score is 4.08, it means that practicum teachers' perceptions of using ICT in a classroom context is categorized into High. Therefore, it can be said that most of the students, had answered all of the items in ranges of agree up to strongly disagree.

4. Conclusion and Suggestions

Based on this study's results about the practicum teachers’ perception of using ICT in EFL classrooms, some conclusions can be drawn. The findings reveal that most practicum teachers (90%) used ICT in the classroom. On using statistical analysis (SPSS), it was found that the mean score at 4.08 with a standard deviation value at 0.144 categorized High level. The score of standard deviation means that all of the answers from respondents are the same agree or homogenous it means that practicum teachers agree on the importance of using ICT in the learning process in the classroom. In addition, the use of ICT has benefits for practicum teachers. Therefore, the researcher concludes that it is a supportive tool to grasp meaningful English learning resources, especially in classroom settings. To conclude, this present study was administered to find out Practicum teachers perceptions’ towards the benefits use of ICT in the English language learning process.

This research shows that perceptions on the use of ICT in the classroom context is high level. It means good perceptions in learning and can be used as EFL learning strategies. The use of ICT is recommended to be applied to practicum teachers/teachers in teaching EFL. Teachers should learn more about ICT and apply it to their teaching to improve their knowledge and skills in teaching EFL. This can be an effective supplementary material to make the learning process more interesting for students.
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