

CHAPTER I

INTRODUCTION

This chapter provides the background of the research. It describes the reason why the researcher conducting the analysis on CALL class in developing students' technological pedagogical content knowledge (TPACK). Afterward, the problems are designed in the research question along with the objective of the study and the students' mastery toward technological pedagogical content knowledge (TPACK). It is continued with the significances of the study to inform how the result of the research will be beneficial. Finally, the last part of this chapter is the definition of key terms.

A. Background of Study

The use of technology and digital media in education really give positive impact for teaching-learning process. Technology it is helpful for the teacher as the teaching specialist to have capability in teaching practice, organizing students in good teaching and learning environment in interacting each other and to give strong impact on learning outcome. The use of technology for education is good to support the teacher in transferring knowledge that they want to teach for the students to improve their skill or knowledge. We also need to learn about technological science because we are faced with the age of technology. The verse that tells us to do the research is QS. Al - Rahman, verses 33:

يَا مَعْشَرَ الْجِنِّ وَالْإِنْسِ إِنِ اسْتِطَعْتُمْ أَنْ تَتَفَدُّوا مِنْ أَقْطَارِ
السَّمَاوَاتِ وَالْأَرْضِ فَانفُذُوا ۚ لَا تَنْفُذُونَ إِلَّا بِسُلْطَانٍ (33)

The verse is a suggestion for anyone who works in the field of science and technology, to try to develop capabilities to the extent that they penetrate (cross) the corners of heaven and earth. However, the Qur'an warns people to be realistic, because no matter how good the plan is, but if the completeness is not prepared then vanity will be faced. Completeness is what is meant in the verse with the term "sulthan", which according to one opinion means power, namely science and technology. Without mastery in the field of science and technology, we do not expect humans to get the desire to explore space. Therefore, people are challenged to always be encouraged to develop science and technology.

Using digital technology as digital media is very interesting for the students. It is caused by the development of technology which recently increases rapidly and has affected the educational world and has been part of media which is used by many teachers to support their teaching and learning practice. Teaching and learning practice which usually uses traditional strategies now can be supported by using software provided in technology. There are many kinds of software that teachers can use to support their teaching practice such as Edmodo, Schoology, blog, PowerPoint, etc.

Besides having technological knowledge, technological knowledge can also be integrated with language learning so that learning is more diverse and modern, one of which is well-known from CALL. Computer Assisted Language Learning (CALL) is an approach to language teaching and learning where computer technology is used as an aid for presentation, reinforcement, and assessment of material to be studied and usually includes substantial interactive elements (Beatty, 2011).

In this case, Information and knowledge is a new form of wealth and a driving force for development and the learning institution also really determines the successfulness of transferring the information and knowledge. There are five key phases where technology supports for education such as connect, collaborate, critical, creative and communicate (Son, 2013).

Regarding that situation, the biggest challenge that teacher faces recently is how to operate technology and media and when to incorporate new and emerge digital technologies for teaching and learning a various subject. How and when to use or apply digital technology for teaching is not easy and many teachers are not capable of using digital technology or even to produce digital media to support their teaching practice. All the teacher's lack of technology can be solved by teacher's technology, pedagogy, and content knowledge (TPACK) competence. Technological Pedagogical Content Knowledge (TPACK) is a knowledge to use various of technology in teaching, represent and to facilitate knowledge creation of content which is specific subject (Koehler & Mishra, 2009). TPACK is a basis of

teaching by using technology to help teachers in teaching practice effectively. In this case, a teacher needs to know the content they want to teach and collaborate it with technology.

Fortunately, in UIN Antasari Banjarmasin, especially at English Department, there is a course has been conducted to enrich their students in mastering technology in education era. This course is called as Computer Assisted Language Learning (CALL) class which focus on integrating technology in language teaching and learning. This course tries to develop students' technological pedagogical content knowledge (TPACK) in producing material for English language teaching through technology in online and offline. CALL courses have been around since 2017, although still fairly new, this subject can have a significant effect on students in learning English both in terms of teaching and learning. Besides, for a while, the CALL course is only optional but in the next few years, it will become one of the mandatory courses in the English department.

Considering the issues above, the researcher tries to know and analyze the students of English Teacher Education Department as a candidate of English teachers in developing their technological pedagogical content knowledge (TPACK) through Computer Assisted Language Learning (CALL) class to build their pedagogical knowledge for better teaching practice. the researcher will carry out the research entitled “ **ANALYSIS ON COMPUTER ASSISTED LANGUAGE LEARNING (CALL) CLASS IN DEVELOPING STUDENTS' TECHNOLOGICAL PEDAGOGICAL CONTENT KNOWLEDGE** ”

B. Research Questions

Concerning the background, this research has some problem statements which are separated by some questions below:

1. How is the learning process of CALL class?
2. How is students' mastery of technological pedagogical content knowledge (TPACK)?

Based on the problems above, we really know that being a teacher/candidate of a teacher is not as easy as we think. There are many aspects that we must concern on mastering pedagogy skill, mastering of the media used which is varieties media we can use especially by using technology. So, the students of CALL class must have competence in mastering technology and digital media provided by computer/technology to support their pedagogy competence to make their students feel interested and enthusiastic during teaching and learning process. But, there will be many challenges for the candidate of teachers in using several of technology as media because there will be many kinds of technology and digital media which have different ways to use it and for what skill suitable for.

To make the research attains its aim, the researcher needs to limit this study only on the learning process in Computer Assisted Language Learning (CALL) class in developing students' technological pedagogical content knowledge based on strategies used by the teacher in CALL class and how the students' mastery of TPACK in CALL class.

C. Objectives of Study

From the formulation of those research questions, this study will aim to:

1. To know the learning process of CALL class in developing students' technological pedagogical content knowledge at the 6th semester of English Department of UIN Antasari Banjarmasin.
2. To know students' mastery of technological pedagogical content knowledge (TPACK).

D. Significance of Study

This Through the result of this research, the researcher expects to give a contribution to the students, teachers/lecturers, readers.

1. For the students, it will give awareness to them the importance of technology for education and enrich their teaching competence by using more creative media which is provided by technology.
2. For the teachers, it will be a solution to use the variety of technology as a media in other classes in teaching practice and can be adopted by other teachers to use technology to support their teaching activity for better education.
3. For the readers, it will be references to enlarge their knowledge about technology for better education.

E. Definition of Key Terms

1. Technological Pedagogical Content Knowledge

Technological Pedagogical Content Knowledge is a knowledge to use several of technology in teaching, represent and to facilitate knowledge creation of content which is specific subject. TPACK is a basis of teaching by using technology to help teachers in teaching practice effectively (Koehler & Mishra, 2009). TPACK in this research means a skill about technology, pedagogic, and also knowledge especially of learning and teaching English.

2. Computer Assisted Language Learning (CALL)

CALL in this study is one of the courses at the English Department and there are 4 classes in CALL courses in the English Department and 120 students take these courses and the CALL courses in the English Department are still relatively new, starting around 2017 and this course is still considered a supporting course. Advantages and Disadvantages CALL in EFL does in the learning and teaching process.

3. CALL and Teacher Training

CALL teacher training/education has been identified as a major tool for encouraging and boosting technology use among language teachers (Wach, 2015). CALL and Teacher Training means the approach that uses computer

tools as a support in the process of learning English. The computer is also used by students to improving their skills in teaching English and to prepare students to become teachers who can use computers to teach and prepare students to face technological advances in the future.