WEB-BASED INSTRUCTION OF THAI LANGUAGE IN TOPIC OF VOCABULARY FOR PRIMARY 5 STUDENTS

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Abstract— This research aims to 1) to develop a web-based instructional program to effectively meet 80/80 criteria. 2) to compare learning achievement with web-based lessons before and after learning. 3) to find students' satisfaction of web-based teaching. The samples were 40 Primary 5 students at Innovation Demonstration School of Rajamangala University of Technology Thanyaburi who are studying in academic year 2018. The method for this sampling is Cluster or Area Sampling which was used to analyze the data by using basic statistics and t-test. The results of this research are 1) the results of the analysis of the effectiveness of web-based teaching in Thai language showed that the web-based instructional program was 82.07 / 81.00. The result was that the web-based computer course was created to be effective and suitable for the students. 2) Web-based learning achievement in Thai language after learning with Web-based instruction is higher than before studying 3) The results of student satisfaction evaluation of the content of the web-based teaching assistants in Thai language is divided into 4 sections. The mean score was 3.52, which shows the highest satisfaction level. The mean score for design was 3.42, which was very satisfied. The means score of presentation style was 3.52, which is satisfied, and the means scores for the important and benefit was 3.67, which is the highest level of satisfaction.

Index Terms— Web-based Instruction, Thai Vocabulary, Language Teaching.

I. INTRODUCTION

Education is a key element in Human Resource Development, and it is the tools to build the country's quality and efficiency with the progress of the various areas such as the political, economy and society. Therefore, the study has been developed. It is important for people of all ages and occupations to be the foundation for their career development in the society and the development of the country to progress. Education today is the catalyst to make changes and develop the society, Most of the results of the study are currently advances in Science and Technology, which contributes to the social system. Economy and Environment field are changes as well. Technology has made the world today to the era called Information Technology which caused by applied science knowledge to manage the required information. However, new technologies such as computer technology, telecommunication network technologies and communications are in the process of information working

in various stages to pursuit. Analysis, storage, distribution, and exchange of information improve the potential accuracy and is quick to use (Viroj Chaimull, 2016). The growth of information technology has also contributed to the advancement of information technology in all aspects of medical, commercial, entertainment and communication. It focuses on the goal of teaching that students learn effectively and efficiently and also to live good in the society. Techniques, methods, and current teaching system must be related. Technology, which influence people's way of life more and more, is a source of knowledge, information, and a lot of people called it as the treasure of knowledge. By the use of the Internet, it allows users to access those data easily. Particually, we can use the Internet as a medium for teaching and learning which is called web-based instruction (Orasha Nilsondhi, 2014).

Nowadays, teaching on the web can help manage the management system effectively by using a computer network as a service tool to reach the target easily and the strength of learning through the web which can be accessed content at any time, unlike regular classes. It also helps eliminate individual problems and the place to study. Web-based learning is more private. It is flexible and easy to learn. It also allows students to interact with the learning content and others. For this reason, the production of various media come up with a lot to use in teaching. The web lesson is one of them.

Web-based Learning use the resources available on the Internet, the medium used to convey knowledge and to promote and support effective teaching and learning. It is a way to help develop learners to learn and enhance learning. The lesson consists of the content section, learning activities, exercises and quizzes In this way, students can look back at any time. Learners are encouraged to react and respond to the content of the lesson. It can be linked to other learning resources related to study. The content of the course is vast which make students understand and not be tired of studying the lesson. It also consists of many interesting things in the lesson. Include incentives, high and fun learning, which then will affect learning achievement (Aree Phanmanee, 2016)

Thai culture is a representation of Thai national identity. The Thai language is Thai. Communication tools in everyday life. Thai language is also a tool used

in education to seek information and develop individual knowledge. (Ministry of Education, Department of Education, 2017). Because Thai language is a tool to communicate and convey national culture, the government and the private sector have been campaigning on the use of Language within youths and to stimulate and raise awareness of the people of Thailand to realize. It's important to collaborate, preserve, promote and preserve Thai culture as a treasure and the value of the country to remain in Thailand forever. (Center for Educational Technology, 2014).

However, today the use of Thai language are going in the wrong way. For example, it's used in blurring way, misreading, wrong written, and using incorrect and inappropriate words. This may mislead all forms of conflict and damage the culture. Although the curriculum focus on vocabulary, there are still many problems related to teaching and learning, it is found that teaching in this regard was not successful. The Office of Educational Testing is evaluating the use of the curriculum in all areas of Thai language ability, and It was found that all educational fields had the highest level of achievement (Department of Academic Affairs, 1995)

Innovation Demonstration School of Rajamangala University of Technology Thanyaburi Pathumthani, the teaching and learning process focused on thought and practice to promote teaching and learning Thai language. But the achievement of Thai students at the level not very satisfactory. Most of them had a grade level of 42.22, followed by Level 3, 36.08 and Level 1, and 13.55, respectively, and a grade level of 1.06. Less than 7.09% showed that the students in primary 5 who had learning achievement in Thai language were not as good as they should be. There are many reasons for these problem. (Sujarit Pienshop and Saijai Intaramphan, 1995) "The Thai language is a problem for teachers and learners. Due to content of the Thai language is rigid and complex and the problem in the instruction in related research. Both teachers and students do not see the benefits and importance of Thai language. The teacher said that the lesson is difficult to teach. Students do not like studying because the content is hard, not fun, not interesting and very difficult. Students are not interested in learning the meaning of vocabulary. The students should learn how to memorize the words so that they can use the Thai language correctly according to the language guidelines.

From the background and significance of the above problems. Researchers are interested and find ways to promote students' ability to learn Thai language, and there is a need to create a web-based tutorial for Thai language at primary 5 students as a medium to encourage students to learn, to understand the content, and to have an learning achievement better. The researcher used Innovation Demonstration School of Rajamangala University of Technology Thanyaburi Pathumthani as the sample in the research because of the availability of computer equipment and internet access that enough to allow students to study. Web Lesson, in addition, to the web-based lessons the course will help students learn Thai. There is also a way for teachers to produce web-based lessons with the use in teaching other subjects.

II. OBJECTIVE OF THE STUDY

1. To produce and develop web-based teaching in Thai vocabulary for primary students 5 to be effective in accordance with the criteria 80/80.
2. To compare pre-test and post-test scores of the learning achievement through web-based learning.
3. To study the satisfaction of the web-based learning for Thai language teaching on vocabulary for students in primary school grade 5

III. RESEARCH HYPOTHESIS

1. Web-Based lesson on Thai Vocabulary for primary school students' grade 5 shows 80/80 efficiency. The first 80 means the student's average score obtained during the exercise and learn Thai online which help vocabulary for primary students grade 5 is 80%. The latter 80% means the average score of the students who took the test after the learning from the web-based teaching in Thai language vocabulary for primary grade 5 students
2. Students have learning achievement scores through web-based instruction in Thai language subject vocabulary higher than before.
3. Students are satisfied after using the web-based teaching materials in Thai language at highest level.

IV. SIGNIFICANCE OF THE STUDY

1.Have a website that help teaching Thai language vocabulary for primary students in grade 5.

2. Students are satisfied with the learning style through web-based instruction of Thai Language vocabulary for primary students grade 5.

3. A guide to developing appropriate web-based instruction for other subjects.

V. RESULT

The effectiveness of web-based instruction is based on the 60 point post-test scores and the 30 point post-test achievement test. The results are shown in Table 1.

	Full Score	Mean	Percentage	E1/E2
Exercise	60	33.65	84.16	
				84.16/83.32
Post test	30	25.00	83.32	

Table 1. The effectiveness of web-based instruction

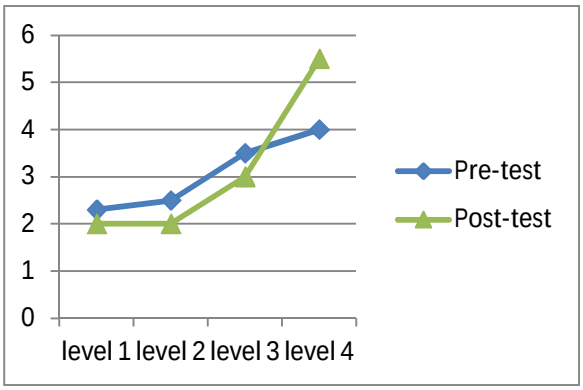
Comparison of pre-test scores with post-test achievement. The results are shown in Table 2.

test	n	k	$\bar{X}$	S.D.	T	Sig
Pre-test	40	30	13.51	2.73	-33.087*	.000
Post-test	40	30	24.57	2.05		

*p < .05

Table 2. Comparison of pre-test scores with post-test achievement.

The populations are 40 people to participant on process of pre-test and post-test. The table showed the Post-test is more than Pre-test. Moreover, The compare of result can display by graphic below.



Picture 1. Comparison of pre-test scores with post-test achievement.

Also the last result is showing students' satisfaction towards web-based instruction. The results are shown in Table 3.

No.	Evaluation item	$\bar{X}$	S.D.
1	The use of idioms that easy to understand.	3.32	0.61
2	Content is difficult for learners.	3.45	0.58
3	Each content rating is appropriate.	3.43	0.55
4	Content that offers useful knowledge.	3.45	0.52
5	Interesting to study.	3.53	0.51
6	Meet the learning objectives.	3.49	0.50
7	Website design is very easy to use.	3.52	0.48
8	The color of the font is appropriate for the background.	3.53	0.55
9	The size of the illustrations used is appropriate.	3.36	0.57
10	Students know the results immediately.	3.44	0.51
11	You can choose to study according to the needs of the students.	3.46	0.53
12	Fonts are easy to look	3.47	0.54
13	Attractive and interesting screen.	3.51	0.53
14	Web-based instruction takes time but useful	3.46	0.52
15	Learners are interested in and enjoy web-based instruction.	3.42	0.53
	Mean	**3.53**	**0.53**

Table 3. Showed students' satisfaction towards web-based instruction

CONCLUSION

Based on the achievement test, of the 40 students it was found that the test scored higher than the pre-test. Each lesson has a sample content and exercises for each lesson that students will need to do. When comparing learning achievement in Thai language vocabulary, the results of the study were as follows: with the media, it is a form that students can choose from place of study through the availability and needs of students. So while experimenting students should study the content as they are ready.

The requirements of the students are not limited to the time and place of study. And if it is to measure learning achievement or follow the behavior of learners, it can be achieved by using the ability of the system of teaching and learning through the Internet. To monitor behavior Web-based lessons, it should be developed in other ways because of the current e-learning teaching has taken on the role of more educational institution of Education. However, the problem is the lack of quality web-based tutorials. It should develop and research in the production of web-based lessons in various subjects, and use the e-Learning management in various educational institutions.

For the future it should have developed more systems to blend into the system with new Information Technology that will happen by using other programs that available. The quality and capabilities of the program support of large databases and volumes.

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