Knowledge Management: Students Development System toward Thailand Qualification Framework for Higher Education

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Abstract—The purposes of research were to study a knowledge management for the general education of Office of General Education and Innovative Electronic Learning at Suan Sunandha Rajabhat University, and to develop its learning model according to Thailand Qualification Framework for Higher Education. Descriptive was utilized in this study. Samples were 7 full-time lecturers. The findings showed that its learning management is organized under the concepts such as non-limitation for learning source, non-learning method limitation, non-time limitation, and non-place limitation. This concept agrees with Blended learning model mixed between Offline and Online. Offline includes four aspects: (1) learning in the class by lecturing with media, (2) demonstrating with lecturing, (3) studying from the learning source of community, and (4) arranging projects based on activities. Online consists of four aspects: (1) self-studying from net-work source, (2) doing activities via e-learning system, (3) communicating with the lecturers via social online, and (4) taking tests online. Researcher found that it has met with the Thailand Qualification Framework.

Index Terms—knowledge management, Thailand qualification framework for higher education (TQF: HEd), blended learning

I. INTRODUCTION

For 75 years since the beginning, Suan Sunandha Rajabhat University has created many potential scholars, whose expertises are in teaching, researching and providing educational service. It was unfortunate that such valuable knowledge was lost by the staff retirement and spreading around all over the place. As we realized that knowledge is the most valuable asset of the institute, we have operated the knowledge management program in the university (KM) since 2006.

Office of General Education and Innovative Electronic Learning takes important role in making the university become the learning organization (LO).

According to how important knowledge management is, Office of General Education and Innovative Electronic Learning have created the program "Students Development System toward Thailand Qualification Framework for Higher Education" (Fig. 1).

Figure 1. Knowledge management activities in the Office of General Education and Innovative Electronic Learning. start of the meeting to share and learn about Students Development System toward Thailand Qualification Framework for Higher Education.

Knowledge management is the process of taking the existing knowledge to make the most out of it for organization. Besides, knowledge management is the new way of learning. It is about how to learn from real life. Old-fashioned curriculum was tied with books and documents. New way of learning focuses on sharing and exchanging knowledge, thoughts, values and skills so everyone can learn from one another (Phanit, 2005) [1].

We recognized that the old way of teaching general courses (lecturing/ teaching) in campus doesn't seem to collaborate with the educational reformation where student-center is the main focus. This study coincides with Tantarangsee (2011) [2] research titeled "Learning Styles of Full Time Suan Suanandha Rajabhat University Students: a Case of General Education Course; English for Communication and Study Skills." It is found that most of the identified teaching and learning contexts support the Pragmatists–the lowest proportion of the population while the highest proportion is the Activists. It is, therefore, suggested that more instructional contexts supporting the Activists learning best by doing, participating in group activities, and emotional learning situation should be added.

The evolution of the learning process of mankind has developed rapidly changing society under the modern

advances in various fields of science and technology science of causing change and develop. Education and learning in the modern world has developed under the flow of technology to influence the formatting or paradigm, called "Technology - Based for Education". The implication is that indicate the use of technology and scientific knowledge to deploy, manage, learn and widely prevalent in today's world. On the new teaching model, another form under the current development of computer technology. As a form of Integrating, deploying computer technology with traditional teaching (Fig. 2-3).
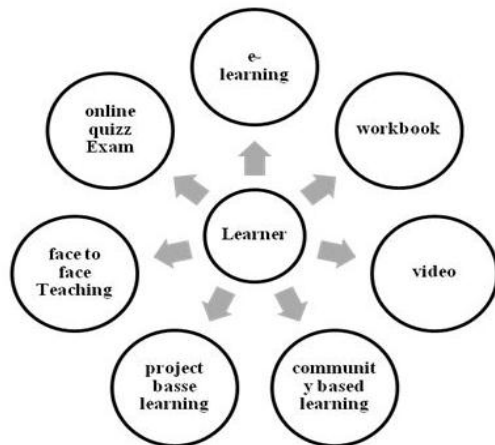

Figure 2.   A new style of teaching, integrating, deploying computer technology with traditional teaching.

Figure 3.   The Form of teaching in the general education of Office of General Education and Innovative Electronic Learning

To achieve learned sages, the effectiveness and efficiency of learning even more. In such a model is called. "Blended Learning" is an innovative blend of educational modules teaching many styles together. It is characterized by a combination of distance learning network Online learning with face to face makes learning more effective than listening to lectures in regular classes. It will focus on the selection of an appropriate and valid for the purposes of learning in different ways to enhance teaching and learning. By definition, it says in the introduction may conclude that. The blended learning is a

learning method that combines the individual confronted with learning through media, computer online systems to enhance academic performance.

Additionally, it won't be able to groom our students to be qualified by the 5 standards of Thailand Qualification Framework for Higher Education (Office of the Higher Education Commission, 2011) [3].

Therefore, Office of General Education and Innovative Electronic Learning has brought the idea of knowledge management to adapt with the curriculum set up for general courses in the campus. We believe that the knowledge management will be the process that change knowledge into intellectual capital and will be very useful for the organization as a whole.

II.   OBJECTIVES

A. To study a knowledge management for the learning model of the general education of Office of General Education and Innovative Electronic Learning at Suan Sunandha Rajabhat University

B. To develop the learning model of the general education of Office of General Education and Innovative Electronic Learning at Suan Sunandha Rajabhat University with the developing system according to Thailand Qualification Framework for Higher Education.

III.   SCOPE

A. Research Area: Office of General Education and Innovative Electronic Learning

B. Population: Teachers and Lecturers teaching general courses teaching in the current academic year.

C. Sample group: 7 full time lecturers in the Office of General Education and Innovative Electronic Learning (Fig. 4). Which is responsible for teaching in 7 subjects is

GEL 1101 Thai Usage
GEL 2201 Thai for Academic Purpose
GEH 1101 Aesthetic Appreciation
GEH 1102 Thai Society in Global Context
GEH 2201 Self Development
GES 1102 Science and Technology for Quality of Life
GES 2205 Recreation for Quality of Life

Figure 4.   Sample group were 7 full time lecturers in the Office of General Education and Innovative Electronic Learning.

D. Content in the research: This research focuses on Knowledge Management: Students Development System toward Thailand Qualification Framework for Higher Education (TQF: HEd). The following material

- Knowledge management
- Thailand Qualification Framework for Higher Education(TQF: HEd)
- Blended Learning

IV. HYPOTHESIS

The curriculum of general courses from Office of General Education and Innovative Electronic Learning in Suan Sunandha Rajabhat University has the development system which will lead our students to be qualified by Thailand Qualification Framework for Higher Education (TQF:HEd) In all 5 point 1) ethics and moral 2) knowledge 3) cognitive skills 4) interpersonal skills and responsibility 5) numerical analysis, communication and information technology skills.

V. DEFINITION OF SPECIFIC TERMS

Knowledge Management-KM means the management process of data, information, ideas and people experiences to create knowledge. This knowledge has to be kept in a place with easy access for everyone to use and share over and over. Eventually there will be the knowledge sharing throughout the organization.

Thailand Qualification Framework for Higher Education (TQF) is the qualification that university graduates must have:

1) Ethics and moral means to develop the habit of behaving with integrity, ethics and responsibility in their personal and collective. The ability to adjust their lives in the conflict values. Develop habits and practices as well as their personal and social morality.

2) Knowledge means the ability to understand The imagery and data presentation Analysis and classification of facts, principles, theories and processes. And can learn at your own pace.

3) Cognitive skills means the ability to analyze situations and use their knowledge and understanding of the concepts, principles, theories and processes. To think critically and solve problems when faced with new situations. The unpremeditated.

4) Interpersonal skills and responsibility means ability to work as a group. Demonstration of leadership Responsibility for self and society Ability to plan and take responsibility for their own learning.

5) Numerical analysis, communication and information technology skills means ability numerical analysis. The ability to use mathematical and statistical techniques. Ability to communicate both written and spoken information technology.

Blended Learning means the learning process that combines different styles of learning, whether it is the classroom lectures or outdoor activities. It also involves different sources of learning and various teaching strategies. The purpose is to help learners achieving their study goal.

VI. RELATED LITERATURE AND THEORIES

A. Knowledge Management

Nanthamaitree (2004) [4] defined the terms of knowledge management that it is the process of producing, preserving and broadcasting knowledge to people in the organization. The knowledge came from staffs' intelligence, which is shared internally by the people in the organization.

Buameethoop (2004) [5] defined that knowledge management is the creating of knowledge sharing environment and culture within one's organization and the preserving of that knowledge to be used within the organization.

B. Blended Learning

Phatsangsri (2011) [6] said blended learning is the learning management where various learning styles and new technology are adapted to create learning activities. New technology will answer the new generation's need of learning.

Sukiam (2012) [7] said the blended learning is a form of teaching that focuses on the activities of teaching and learning by creating an environment and atmosphere for learning. Methods of teaching, learning styles of students. Instruction media Channels of communication and interaction between the student and the instructor. The learner and the learner Learners to content Students learn a variety of contexts. To meet the individual differences of students so that each student has the best results in teaching.
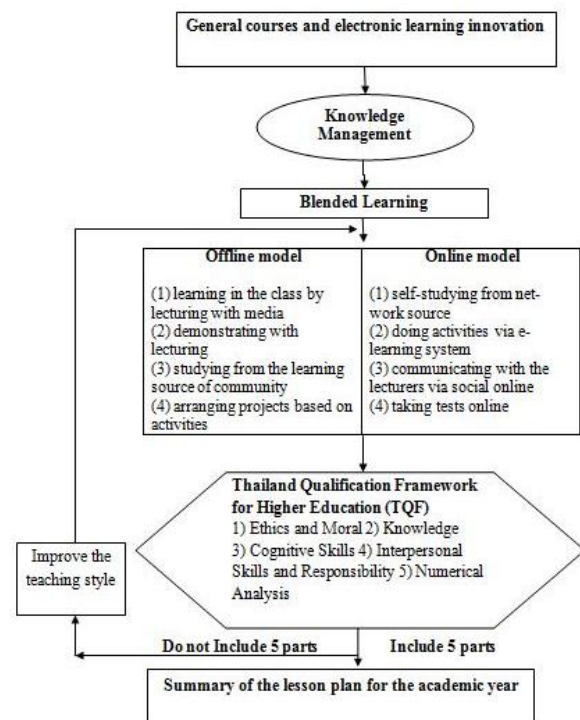
VII. RESEARCH FRAMEWORK

Figure 5. Research framework

Research framework starting from the knowledge management. Of the Office of General Education and

Innovative Electronic Learning is a combination of online and offline learning. By the instructor for each course explore their teaching that each event is held to develop the characteristics of graduates had completed the top 5 if not full, it gives back to improve instruction. If after a brief summary of the teaching sector (Fig. 5).

VIII. METHODOLOGY

This research is the descriptive research based on related documents, such as lesson plans, curriculum planning, projects and programs and informal interviews. The information from the study was described in essay form.

The findings showed that the learning management for the general education of Office of General Education and Innovative Electronic Learning is organized under the main concepts of non-limitation for learning source, non-limitation of learning method, non-time limitation, non-place limitation (Fig. 6).
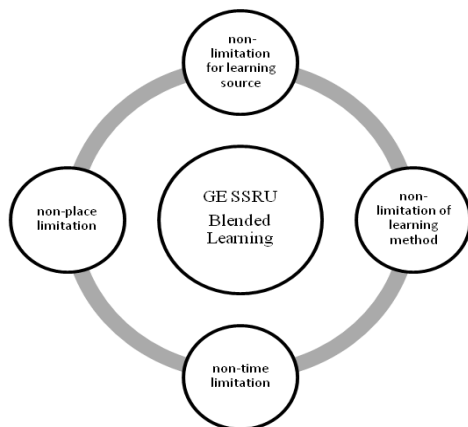

Figure 6.   The form of teaching in the office of general education and innovative electronic learning.

Non-limitation for learning source: Students have access to resources such as e-learning systems textbook wisdom and Scholars

Non-limitation of learning method: Students can choose their learning needs such as self-study The participants of the seminar.

Non-time limitation: Students can use the equipment and communication tools to access resources at any time.

Non-place limitation: Students can learn anywhere, unlimited learning in the classroom.

This concept agrees with Blended learning model. It is the mixture of Offline and Online learning style (Fig. 7).
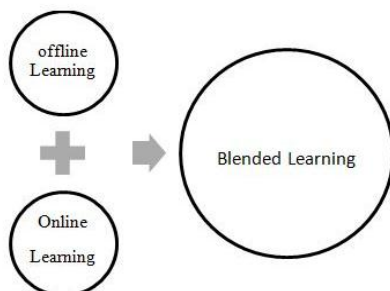

Figure 7.   Model for blended learning is combination of online and offline learning.

Offline style includes four aspects:
- Learning in the class by lecturing with media
- Demonstrating with lecturing
- Studying from the learning source outside university
- Initiating projects based on activities

Online model consists of four aspects
- Self-studying from online sources and networking
- Doing activities via e-learning system
- Communicating with the lecturers via social network
- Taking test online

From the learning management for the general education of Office of General Education and Innovative Electronic Learning, it found that it has system for Thailand Qualification Framework for Higher Education including:
- Ethics and moral
- Knowledge
- Cognitive skills
- Interpersonal skills and responsibility
- Numerical analysis, communication and information technology skills.

This model agrees with the idea of Phatsangsri (2011) [6] who stated that the blending of old way and new way learning can work well if we bring the advantages of each style to blend in together. From the observation these days, learning style involving new technology seems to be more interesting and work well among students these days who are considered "the new generation".

According to the new way of knowledge management for the general education of Office of General Education and Innovative Electronic Learning, we found that it has met with the Thailand Qualification Framework for Higher Education including:
- Ethics and moral
- Knowledge
- Cognitive skills
- Interpersonal skills and responsibility
- Numerical analysis, communication and information technology skills.

IX. SUGGESTION

A. Suggestions for the Use of the Research Result

There should be the manual book of the set up of general courses in the campus so it will be very useful for staff and teachers involving in setting up the courses so they can set up all courses in the same standard.

B. Suggestion for Further Research

There should be the idea expansion of knowledge management into the specific courses or subjects which are most likely capable of bringing up our students to meet the standard of TQF.

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