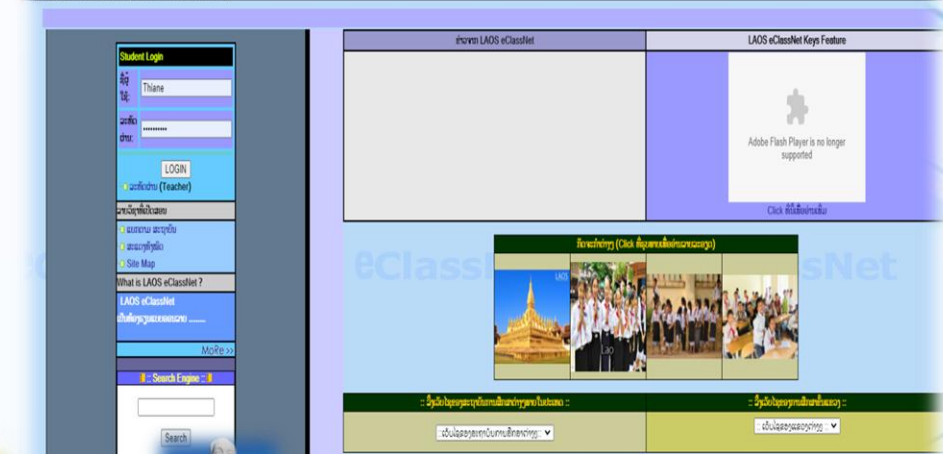


The 8th UNESCO UNITWIN International Conference on Quality Teacher Education 2023



An Investigation of E-Classnet to Enhancing Pre-service Students' Research in Classroom Competence.



Thongthiane Vathanavong
(PhD candidate)

Research Team



Chanpheng
Vongvilay



Phaivanh
Vathanavong



Saiphone
Khotsaigno



Yang Xang



Somchay
Phaigavong

**Faculty of Education, Souphanouvong University,
Lao PDR**



ວິໄສທັດ (VISION)
ລົງເລິກວິຊາສະເພາະ, ພັດທະນາທ້ອງຖິ່ນ, ກ້າວສູ່ມາດຕະຖານສາກົນ
Specialization, Localization and Globalization

Cheongram Art Hall, KNUE campus, 3 November 2023.

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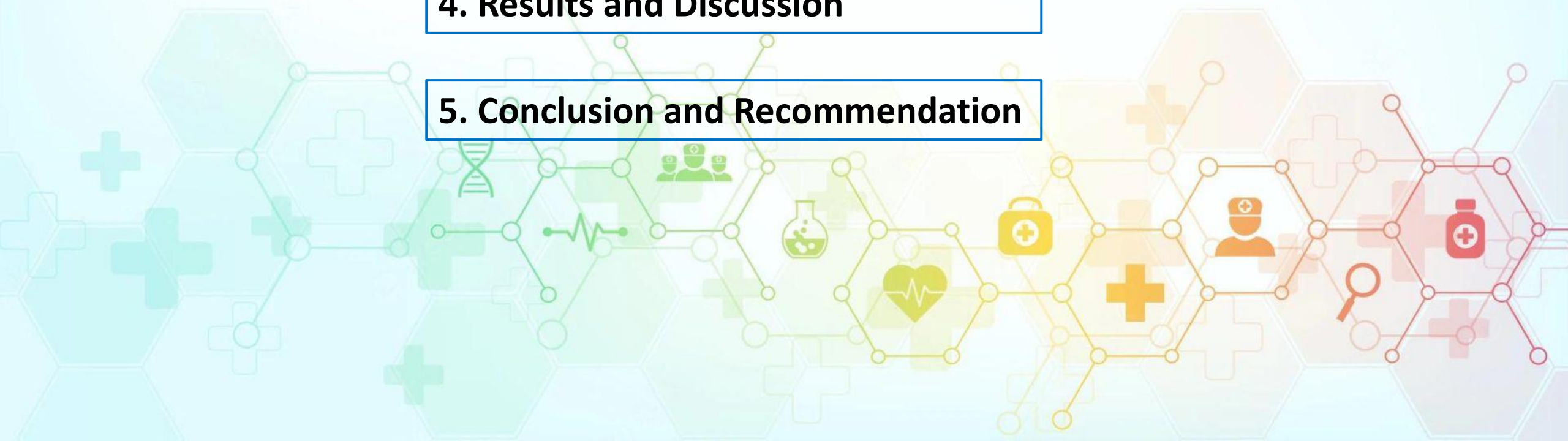
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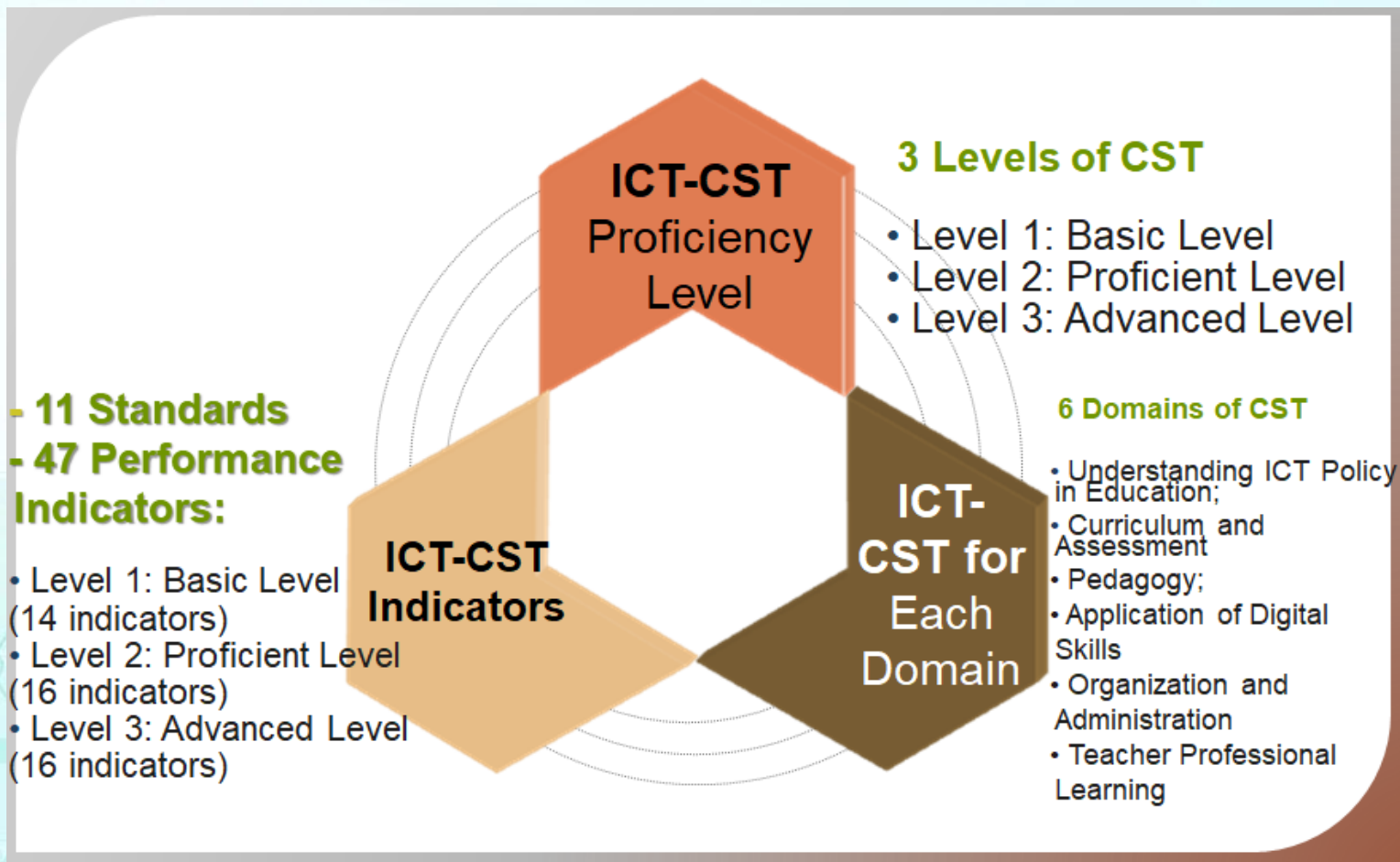
5. Conclusion and Recommendation



1. Introduction



ICT Competency Standards for Teachers in Lao PDR



UNESCO, 2022; Ministry of Education and Sports, 2022



1. Introduction

- Souphanouvong University (SU) was established on 5th November, 2003.
- SU is one of five public higher education institutions in Lao PDR. Its role is to conduct educational activities in various fields.
- To achieve this, SU needs to produce the **qualified academics**, experienced **researchers**, and professional scientists to conduct scientific research, **preserve and promote the fine art and culture** of the nation and provide academic services to the society.
- Vision
 - **Specialization** (Directing to reach other best universities)
 - **Localization** (Striving to improving community member's wellbeing)
 - **Globalization** (Aiming at moving toward international standards)



1. Introduction

FOE's Vision

"to become a center of excellence for education professional and production for sustainable development in northern Laos"

FOE's Slogan

"Educating the student with quality instructors and local development"



- 1) Providing the degree of bachelor and master of education in programs
- 2) Teacher and educational entrepreneur development
- 3) **Teacher Professional development (ICT, Teaching)**
- 4) Academic service for the community
- 5) Faculty administration development
- 6) Conservation and support of local culture as a unique nationalist and globalist
- 7) Preparation for linking with regional and international institute



1. Introduction

- Previously. Adaptation to face COVID-19 serious epidemic (Human, Education Sectors, Teachers, Students, Policy etc...) Online path form was the good for those situation. (Ministry of Education and Sports (2020, 2021); Wagyim, Wangchom, and Mano (2021); Higher Education (2020) and Research Institute for Educational Sciences MOEs (2021).

Faculty and online learning

- ✓ Pre pandemic
- ✓ During pandemic
- ✓ After pandemic

Government supporting

- ✓ Policy
- ✓ Decree
- ✓ Capacity building

The faculty of education are also conducting a large scale of online instruction for student, Many lecturers used their individual resources to launching an online activities



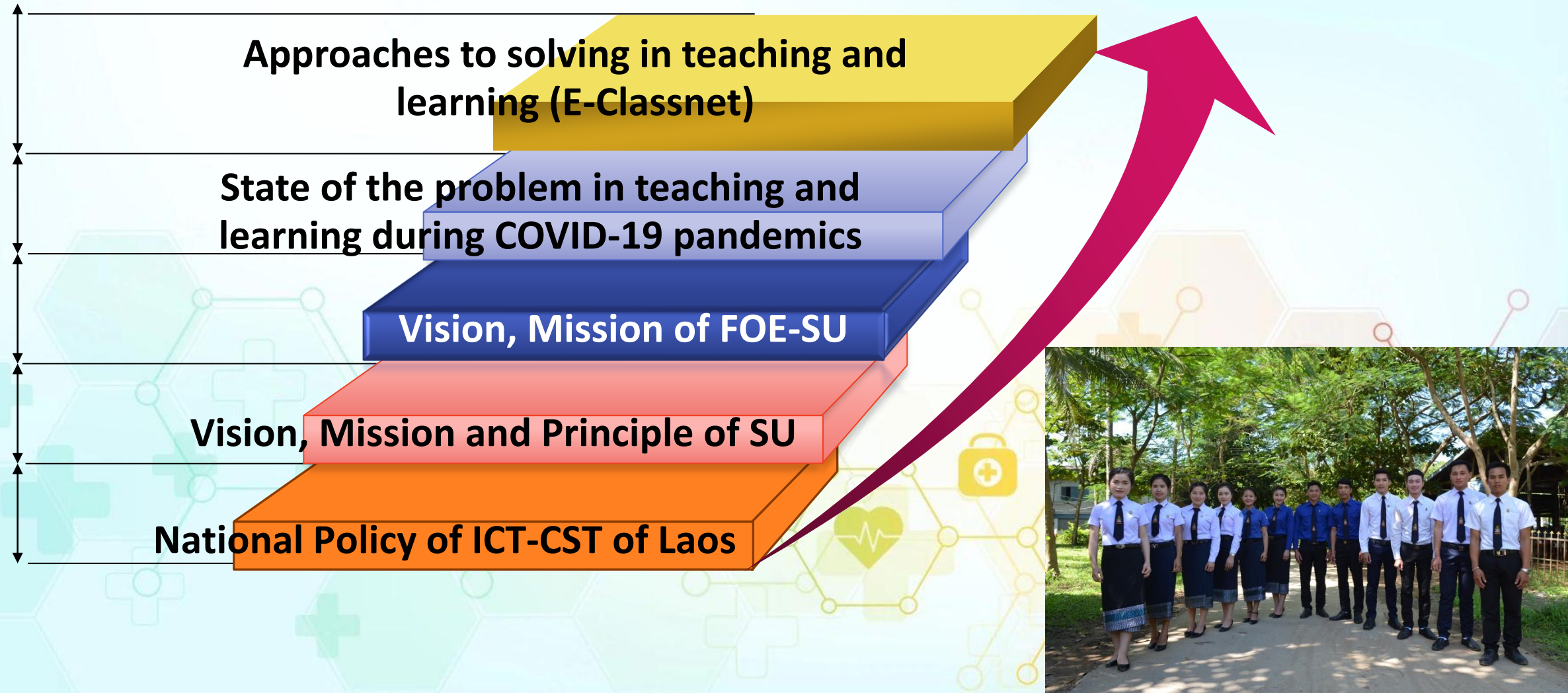
1. Introduction

- E-ClassNet is a networked classroom (ICT-Application, helps develop students' academic achievement; helps develop students' ability to use information technology in their learning, which is a desired characteristic of learners in today's society. E-ClassNet was developed in to Lao version by **Assoc.Prof. Santi Wijakkanalan** et al since 2019 with the **Educational Science Research Institute** of the Lao PDR has studied and used as a system. E-Training with secondary school mathematics teachers in Lao PDR. (Wijakkanalan, 2020)



1. Introduction

An Investigation of E-Classnet to Enhancing Pre-service Students' Research in Classroom Competence.



2. Objectives



1) To Evaluate comprehension of research in the classroom

2) To Assess the ability to design a proposal of research in the classroom

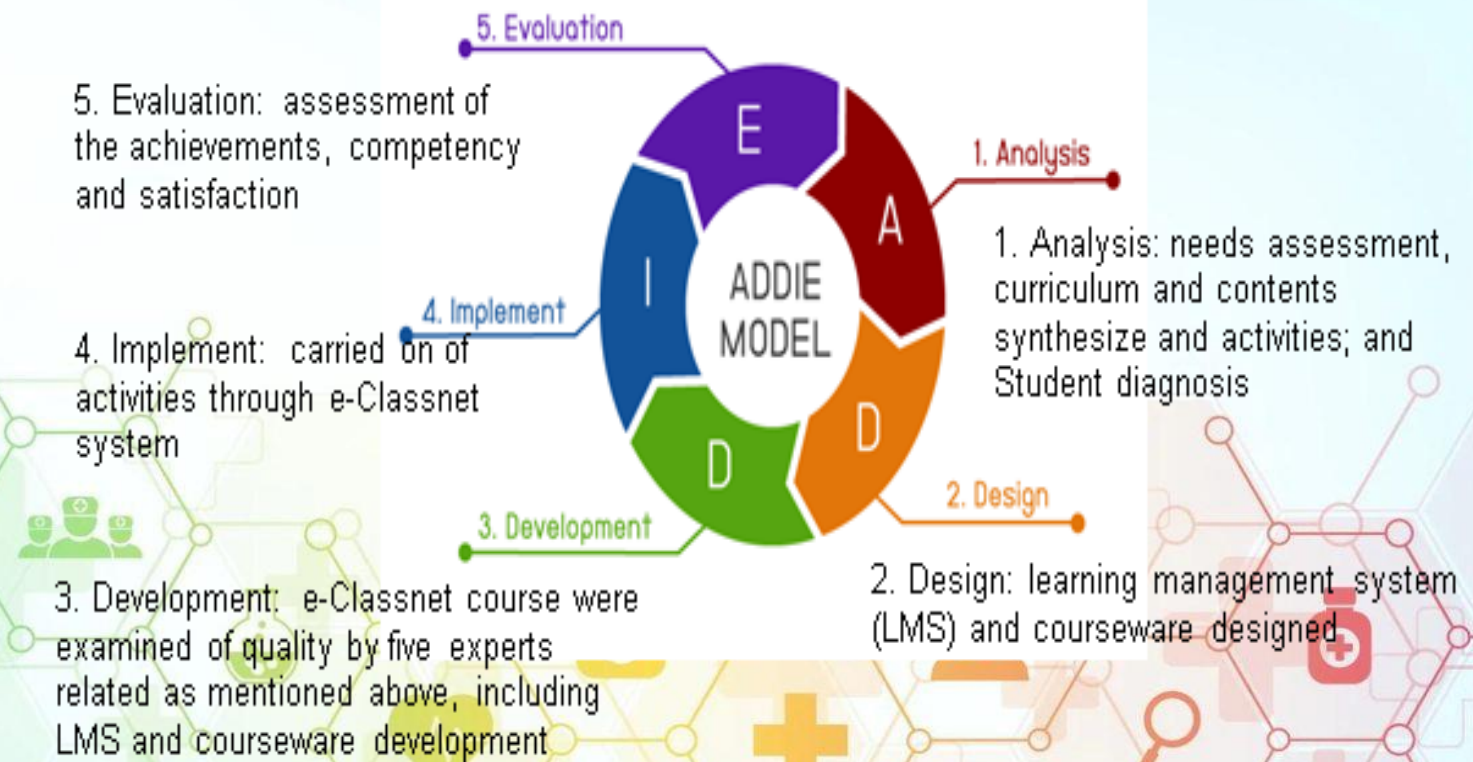
3) To examine satisfaction in using E-Classnet in learning



3. Methodology

- ✓ Action research was used in this research methodology on a quasi-experimental research design with one-shot case study design (Creswell & Plano Clark, 2011; Ketchatturat, 2020).

- ✓ Target Group: 42 pre-service students at the Faculty of Education, SU. Who were final year in 2020-2021 academic years.



(Sources: Dick & Carey, 1996 and Chiangmai University, 2017)

3. Methodology



✓ Readiness of learning equipment for the pre-service students

	Items	n	Percentage (%)
Types of equipment (Multi-choose choices)	Mobile Phone	41	97.61
	Smart Phone	27	64.28
	Computer	30	71.42
Internet speech	3G/4G	35	83.33
	Other	7	16.66
Social media (Multi-choose choices)	Facebook	22	52.38
	What Apps	23	54.76
	Other	10	23.80
Interested in E-Classnet	Much to very much	38	90.47
	Middle	3	7.14
	Less to poor	1	2.39
Main reasons to participants	Readiness	8	19.04
	To enhancing myself	33	78.57
	Present Situation	1	2.39


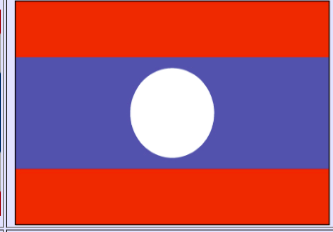

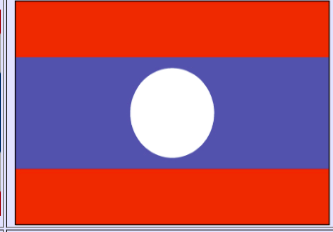

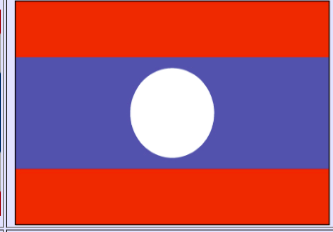


3. Methodology





✓ E-Classnet system

<https://eclassnet.kku.ac.th./laos/>

Student Teacher Net Teacher Register Teacher Manual Student Manual Help Desk

<p>ຂ່າວຈາກ LAOS eClassNet</p> <p>.... ແຫຼ່ງຮຽນຮູ້ເປີດ ...</p> <p>KKU Learning Resource: Kku OER</p> <p>ກົດເຂົ້າ ທີ່ນີ້, ເຂົ້າທີ່ແຫຼ່ງການຮຽນຮູ້.</p>	<p>LAOS eClassNet Keys Feature</p> <p>Teacher Manual</p> <table border="1"> <tr> <td data-bbox="1702 539 2033 582"> <p>คู่มือการใช้สำหรับผู้สอน</p> </td> <td data-bbox="2033 539 2364 582"> <p>ຄູ່ມືຜູ້ໃຊ້</p> </td> </tr> <tr> <td data-bbox="1702 582 2033 811">  </td> <td data-bbox="2033 582 2364 811">  </td> </tr> <tr> <td data-bbox="1702 811 2033 853"> <p>ภาษาไทย</p> </td> <td data-bbox="2033 811 2364 853"> <p>ພາສາລາວ</p> </td> </tr> </table>	<p>คู่มือการใช้สำหรับผู้สอน</p>	<p>ຄູ່ມືຜູ້ໃຊ້</p>			<p>ภาษาไทย</p>	<p>ພາສາລາວ</p>
<p>คู่มือการใช้สำหรับผู้สอน</p>	<p>ຄູ່ມືຜູ້ໃຊ້</p>						
							
<p>ภาษาไทย</p>	<p>ພາສາລາວ</p>						

ກົດຈະກຳຕ່າງໆ (Click ທີ່ຮູບພາບເພື່ອອ່ານລາຍລະອຽດ)

			
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<p>:: ລິ້ງເວັບໄຊຂອງສະຖາບັນການສຶກສາຕ່າງໆພາຍໃນປະເທດ ::</p>	<p>:: ລິ້ງເວັບໄຊຂອງການສຶກສາຂັ້ນແຂວງ ::</p>
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3. Methodology

✓ E-Classnet system
<https://eclassnet.kku.ac.th./laos/>

System

Student Teacher Net Teacher Register Teacher Manual Student Manual Help Desk

0700 (Indochina Time) Clock: 08:46:23 am

Register :: New Teacher

ยินดีต้อนรับสมาชิกใหม่ทุกท่าน เข้าสู่ระบบการเรียนการสอนบนเครือข่ายคอมพิวเตอร์ กรุณาป้อนข้อมูลตามที่กำหนด และเมื่อท่านลงทะเบียนแล้ว จะได้รับการตรวจสอบจากผู้ดูแลระบบ ซึ่งท่านจะได้รับทางติดต่อกลับ เพื่ออำนวยความสะดวกในการลงทะเบียนเรียนต่อไป
 หมายเหตุ: ท่านสามารถศึกษาวิธีการใช้ระบบการเรียนการสอน รวมถึงวิธีการจัดการเรียนการสอนได้ โดย [Click นี้](#)

> สมัครสมาชิก **คุณครูวิชาของท่าน**

ข้อมูลส่วนตัว (* จะต้องการให้ครบ นะครับ)

ตำแหน่ง

ชื่อ

นามสกุล

ที่อยู่

รหัสไปรษณีย์

หมายเลขโทรศัพท์

เพศ ชาย หญิง

วันเกิด วันที่ เดือน

สาขาวิชา/สาขาวิชา

คณะ (รายวิชาของท่าน จะถูกจัดอยู่ในหมวดหมู่นี้)

สังกัดสถาบัน

ชื่อสมาชิก (User name)

รหัสผ่าน

ยืนยันรหัสผ่าน

E-mail

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หมายเหตุโทรศัพท์บ้าน หรือโทรศัพท์มือถือ

กรุณากรอกเป็น ปี พ.ศ. ที่เกิด

ชื่อสมาชิกมีความยาวอย่างน้อย 3 ตัวอักษร ต้องขึ้นต้นด้วยตัวอักษร a-z เท่านั้น ใช้ได้เฉพาะตัวอักษร a-z, 0-9 เท่านั้น ห้ามมีช่องว่างในชื่ออย่าลืมหา
 ความยาวอย่างน้อย 4 ตัวอักษร แต่ไม่เกิน 30 ตัวอักษร ควรใช้ตัวอักษรภาษาอังกฤษ (a-z, A-Z), ตัวเลข (0-9) และตัวอักษรพิเศษอื่น ๆ (\$, #, @, !, %, &, *, +, -) รวมทั้งห้ามใช้เครื่องหมายขีดกลางได้ขาด

* สำคัญมาก ระบบจะติดต่อกับผ่านอินเทอร์เน็ต กรุณาป้อนให้ถูกต้อง

ลงทะเบียน บันทึก

2. Necessary information

3. Registration



3. Methodology

✓ E-Classnet system <https://eclassnet.kku.ac.th./laos/>
For the Teacher

Learning Management System (LMS)

สNet
รหัสวิชา ED09072 ชื่อวิชา Research Methodology in Education
ภาค 3 ปีการศึกษา 2020

ระบบบริหาร/จัดการเรียนการสอน

(1) edit course code, course list, course name, academic year, academic section;
2) add - editing, summarize the course, links to information and daily news;
(3) add – editing the schedule; (4) add – editing the students list;
(4) add – editing the students list;
(5) add – editing the net teachers and co-teachers;
(6) checking attention;
(7) checking and giving the score to homework, activities, projects and portfolio;
(8) evaluation and grading
(9) tally of visitors.

Courseware Development

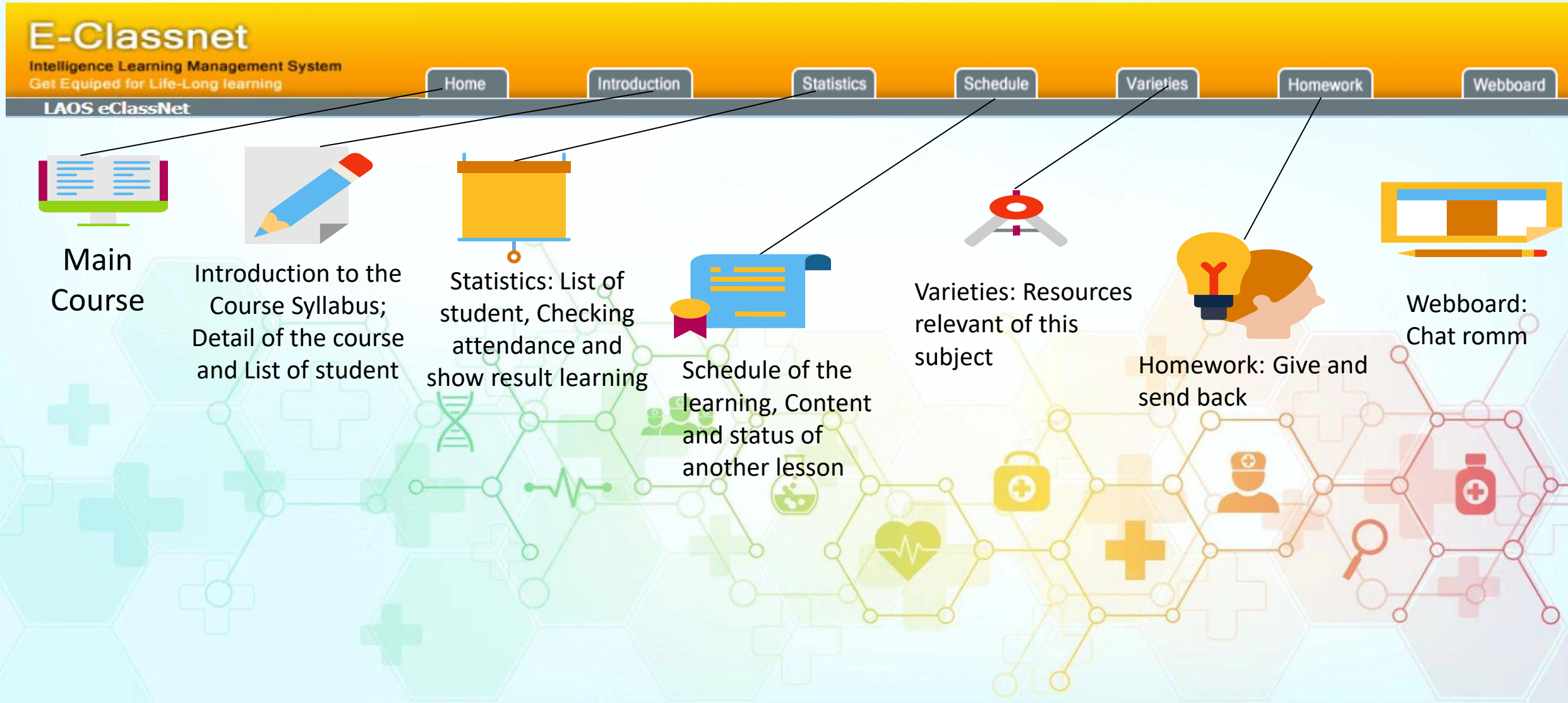
- (1) Presentation design
- (2) HTML Design
- (3) Web Editor & File Manager
- (4) Media Design (Swish & Flash)
- (5) Questionnaire
- (6) Examination
- (7) Previews

BACK

3. Methodology



✓ E-Classnet system : For the Student



4. Results and Discussion



1) Result of evaluate comprehension of research in the classroom

Table 3. *The results of comprehension of research in the classroom*

Item	n	\bar{x}	S.D	Degree of freedom (df)	t(41)	Sig. (P-value)
Posttest	42	93.78	2.33	41	5.42	.000
Criteria (80 points)		80				

Table 4. *The participants achieved the criteria*

Item	Criteria	N	percentage
Passed	$\bar{x} \geq 80\%$ or 80 points	37	88.09
Not passed	$\bar{x} < 80\%$ or 80 points	5	11.91
Total		42	100.00



4. Results and Discussion

2) Results of assess the ability to design a proposal of research in the classroom

Table 5. The ability to designing proposal of research in the classroom

No.	Item	\bar{x}	S.D	Interpretation
1	Research Title	3.55	0.74	Good
	1.1 The title is supporting to the point.	3.74	0.79	Good
	1.2 The title is clear and concise.	3.38	0.85	Good
2	Background	3.67	0.68	Good
	2.1 Identifying to state of the problem clearly	3.71	0.94	Good
	2.2 State the objectives of the research appropriately and clearly.	3.62	0.79	Good
	2.3 Identifying to conceptual framework obviously	3.64	0.95	Good
	2.4 The definition was defined appropriately	3.71	0.91	Good
3	Literature reviews	3.70	0.73	Good
	3.1 Citations and relevant previous research were reviewed directly	3.64	0.85	Good
	3.2 Prioritizing document review	3.76	0.87	Good
4	Methodology	3.80	0.64	Good
	4.1 Specifying of sample and population	3.69	0.85	Good
	4.2 The data collection process was appropriately	3.90	0.85	Good
	4.3 Determining the accuracy and confidence of data analysis	3.81	0.77	Good
5	Results	3.76	0.61	Good
	5.1 Guidelines for presenting research results correctly, precise and clearly.	3.52	0.83	Good
	5.2 Fairly results	3.88	0.80	Good
	5.3 Accreted interpretation	3.90	0.65	Good
	Overall Mean	3.70	0.58	Good

4. Results and Discussion

3) Result of examine satisfaction in using E-Classnet in learning

Table 6. The satisfactions of pre-service students toward E-Classnet

	Item	\bar{x}	S.D	Interpretation
1	The speed of using the Internet through the computer network system	4.40	1.03	Highest
2	Convenience of access to the faculty's computer network	4.50	1.07	Highest
3	The stability of the system can use the Internet continuously	4.13	1.14	High
4	The computer network system of the <u>Wirless/Wifi</u> board can serve as a universal control	4.54	1.26	Highest
5	The E-Classnet system is an appropriate teaching and learning medium that is in line with the 21 st century teaching and learning management	4.95	1.06	Highest
6	The content used in teaching is appropriate and in accordance with E-Classnet	4.86	1.09	Highest
7	Designing appropriate learning activities	4.81	1.11	Highest
8	E-Classnet has clear, convenient and easy-to-use procedures	4.13	1.01	High
9	Beauty in the design of the system, the use of colors and the size of the font is appropriate	4.81	1.11	Highest
10	There is a clear measurement-evaluation and reporting of the results of the incident	4.36	1.18	High
Overall Mean		4.55	1.11	Highest

5. Conclusion and Recommendation



Conclusion

- (1) The comprehension of research in the classroom after learning through E-Classnet **achieved criteria with a double percentage** as cognitions achieved criteria with a statistical significance level of 0.05. The participants' number who achieved the criteria
- (2) The skills of design in the proposal of research in the classroom were **good**.
- (3) (3) The satisfaction of pre-service students toward E-Classnet at **highest** level.



5. Conclusion and Recommendation



Challenges

- ❑ Students live in a remote area (**The internet is not yet accessible**)

The some problem is probably with the **device**. The obstacle to E-Classnet is the **inexperience** in using the program of students. Some students **do not pay attention to the pursuit** of having to rely on friends rather than seeking for themselves.

- ❑ The atmosphere of **E-Classnet** and being in a **real classroom** is different
- ❑ As for the teachers, must prepare teaching materials suitable for communication
- ❑ Students have to work hard twice as much

5. Conclusion and Recommendation



Recommendation

- ❑ The E-Classnet system **should be incorporated** into the integration and development of blended teaching and learning.
- ❑ Long-term studies should **be conducted** to evaluate the effectiveness of using the E-Classnet teaching model in terms of academic achievement.
- ❑ Should **deepen the promotion** of learning management process for the 21st century, promote teachers and students integrated E-Classnet to teaching and learning skills in the 21st century, improve technology and environment to be conducive to teaching and learning in the 21st century and evaluation methods for teaching and learning in the 21st century.



ຂອບໃຈທຸກທ່ານ



Thank you for your attention!

Corresponding author:

ThongthianeVATHANAVONG (PhD Candidate)
Faculty of Education Souphanouvong University
Tel/Line/WhatsApp: +856-20-5429 9659
Email: tthiane@gamil.com, vathanavong@su.edu.la