

## Aspect 3 Research Quality

### Component 3.1 Research works and innovations quality

**Issue 1 (15)** Ratio of research works and innovations corresponding to higher education context and addressing country development.

#### Assessment criteria

“Achieving outstanding results that are the benchmark for other institutes”

#### Performances

Performance results in term of the ratio of research works and innovations corresponding to higher education context and addressing country development are as follows:

1. From ACY 2014 to 2019, the College had 288 research works published in international academic journals. The ratio of research works corresponding to institute context and country development was 8:1. The College research works corresponding to country development was at 11%, which was higher than the college specified target.

Items	Academic Year						Total
	2014	2015	2016	2017	2018	2019	
Research works	21	57	49	61	53	47	288
Corresponding to institute context	18	53	45	55	46	39	256
Corresponding to country development	3	4	4	6	7	8	32
Context : country development	6:1	13:1	11:1	9:1	7:1	5:1	8:1
% of research works related to country development	14	7	8	10	13	17	11

2. From ACY 2014 to 2019, the number of college research works that had been published in academic journals were greater than published research works from counterpart private university, and the ratio of research works corresponding to institute context and country development published in academic journal was higher than

counterpart private university ratio as well. (15.2.1) Those led to best practices for quality development of research works corresponding to institute context and country development (15.2.2).

**Achievement**

Exceeded goal

**Self-Assessment on Issue 1 (15)**

Goal	Performance	Self-Assessment
4	5	According to the standard of excellence

**List of supporting evidences**

No.	List of supporting evidences
15.1.1	List of published research works between ACY 2014 and 2019
15.2.1	Comparison of College research works with counterpart private university
15.2.2	Best practices for works the quality development of research corresponding to institute context and/or country development

**Aspect 3 Research Quality**

**Component 3.1 Research works and innovations quality**

**Issue 2 (16)** Ratio of published research works and innovations that were cited in academic journals.

**Assessment criteria**

“Having the performance results which are best practices in the ratio of published research works and innovations that were cited in academic journals according to the OHEC criteria”.

**Performances**

Performance results in Ratio of published research works and innovations that were cited in academic journals are as follows:

1. Ratio of citations and number of Faculty members responsible for the Program was 0.25 and was rated to score of 5 (Very good level) according to the OHEC criteria. (16.1.1)

2. From ACY 2014 to 2019, the College had 288 published research works. 84 research works were cited. In ACY 2019, college had 151 full time lecturers. Therefore, the ratio of citations and number of full time lecturers was  $84/151 = 0.56$ . The ratio was higher than the OHEC criteria. Performances originated best practices in the quality development of research works and innovations in order to be cited in published academic journals. (16.2.2)

Items	Academic Year						Total
	2014	2015	2016	2017	2018	2019	
Number of research works	21	57	49	61	53	47	288
Number of citations	5	31	23	16	7	2	84
Number of full time lecturers	118	137	140.5	163.5	144	151	151
Citations : Lecturers							84:151
Ratio							.56
Scored by OHEC criteria							5

### Achievement

Achieve goal

### Self-Assessment on Issue 2(16)

Goal	Performance	Self-Assessment
4	4	According to the standard of very good

### List of evidence

No.	List of evidence
16.1.1	OHEC citations criteria
16.2.1	List of published research works and citations ACY 2014 to 2019
16.2.2	Best practices for the quality development of research works and innovations in order to be cited in published academic journals.

## Aspect 3 Research Quality

### Component 3.1 Research quality and creative work

**Issue 3 (17)** Ratio of research works and innovations receiving awards or grants from national or international organizations

#### Assessment criteria

'Performance results are corresponding with criteria set by the college and higher agency with a clear direction on ratio of research works and innovations receiving awards or research grants from national organizations. OHEC quality level criteria will be brought to consider performance results', and

'Good performance are corresponding with college goals on research works and innovations receiving awards or grants from national organizations. OHEC quality level criteria will be brought to consider performance results", and

'There is a good tendency of management according to institute missions and objectives, with the future management plan focusing on the ratio of research works and innovations receiving awards or grants from national organizations. OHEC quality level criteria will be brought to consider performance results.

#### Performances

Performance results in ratio of research works and innovations receiving awards or grants from national or international organizations are as follows

1. College set up goal to produce at least one high quality research works that can be awarded or submit at least one research proposals to get funding from national organizations or enterprises. (17.1.1)

2. Each year from ACY 2014 -2019, 3-4 research projects received grants from outside organizations, such as ONESQA, Teachers Council of Thailand, various Embassies, Burapha University, and so forth. This result was in accordance with College criteria.

Academic Year	Title	Researcher names	Research funding agency	Research support fund
2017	Market Survey Project on Supply Chain Management and Logistics in Processed Food and Agro Products Industry for Embassy of India, Bangkok.	Dr. Meena Madhavan Dr. Mohamed Ali Aj. Hazanal Rashid Khan	Embassy of India in Thailand	137,500
2018	Achievement - based External Quality Assurance at Higher Education	Dr. Vichian Puncreobutr & et. al.	ONESQA	300,000
2019	Research on quality assurance of curriculum management	Dr. Pongthep Jiraro & et. al.	Burapha University	300,000
2019	Follow up research and evaluation of organizing professional development activities, professional learning communities of networking that received support funds from Teachers Council, Year 2019, Eastern Region	Dr. Pongthep Jiraro & et. al.	Teacher's Council of Thailand (Khrurusapha)	110,800

**Remark:** Above were only research grants from national organizations

3. Performance result of college research supporting funds from ACY 2014 -2019, most of research supporting funds came from private sectors, along with internal additional fund

from college. According to the OHEC quality criteria, assessment result in term of supporting funds criteria was at 4.58 or Very Good level(17.3.1).

Score of IQA on research supporting funds	Academic Year					
	2014	2015	2016	2017	2018	2019
Faculty of Business Administration	5.00	5.00	4.61	5.00	5.00	5.00
Faculty of Humanities and Social Sciences	5.00	5.00	5.00	5.00	5.00	4.58
Faculty of Education	5.00	5.00	5.00	5.00	5.00	4.83
Faculty of Public Health	4.14	5.00	5.00	5.00	5.00	5.00
Faculty of Nursing	1.85	2.24	3.39	3.06	5.00	2.80
Institute	4.20	4.45	4.72	4.61	5.00	4.44

4. The College had a good tendency to get more research funds from national organizations, such as ONESQA and Teachers Council of Thailand. (17.4.1)

5. The College has best practice for research proposal or project writing in order to receive funds from national organizations or enterprises, and has shared its best practice with other private international university networking.

#### Achievement

Goal not achieved

#### Self-Assessment on Issue 3 (17)

Goal	Performance	Self-Assessment
4	3	According to the standard of good

## List of evidence

No.	List of evidence
17.1.1	College policy on research
17.2.1	STIC IQA SAR : Research grants from outside organizations
17.3.1	STIC IQA SAR : College Research Supporting Funds
17.4.1	STIC IQA SAR : Tendency to receive research funds from national organizations
17.5.1	Best practice for research proposal or project writing in order to receive funds from national organizations or enterprises

### Aspect 3 Research Quality

#### Component 3.2 Quality of applied research works and innovation development

**Issue 1 (18)** Ratio of applied research works and innovation development corresponding to institute context that bring to create innovations and inventions responding to country development

##### Assessment criteria

'Performance results are corresponding with criteria set by the college and higher agency with a clear direction on applied research works and innovation development corresponding to institute context that bring to create innovations and inventions responding to country development. OHEC quality level criteria will be brought to consider performance results', and

'Good performance are corresponding with college goals on applied research works and innovation development corresponding to institute context that bring to create innovations and inventions responding to country development. OHEC quality level criteria will be brought to consider performance results", and

'There is a good tendency of management according to institute missions and objectives, with the future management plan focusing on the ratio of applied research works and innovation development corresponding to institute context that bring to create innovations and inventions responding to country development. OHEC quality level criteria will be brought to consider performance results.

## Performances

Performance results in ratio of applied research works and innovation development corresponding to institute context that bring to create innovations and inventions responding to country development are as follows:

1. College set up goal to produce at least one applied research works and innovation development corresponding to institute context that bring to create innovations and inventions responding to country development annually. (18.1.1)

2. From ACY 2014 to 2019, college lecturers had published 288 research works in various national and international academic journals. Out of 288 research works, 61 were applied research works. Furthermore, 39 of these research works were concerned with institute context, such as innovations on teaching methods/techniques, innovations on patient care program, and the other 22 research works were concerned with country development, such as innovation on management techniques. (18.2.1)

Items	Academic Year						Total
	2014	2015	2016	2017	2018	2019	
Number of research works	21	57	49	61	53	47	288
Applied research works	4	8	9	11	14	15	61
Applied research works corresponding to institute context	2	5	6	7	9	10	39
Applied research works corresponding to country development	2	3	3	4	5	5	22
Applied research works Context : country development	1:1	5:3 (1.7:1)	2:1	7:4 (1.8:1)	9:5 (1.8:1)	2:1	39:22 (1.8:1)
% of applied research works	19	14	18	18	26	32	21



3. Since ACY 2019, College has a good tendency of operational results focusing on applied research works and innovation development bring to create innovations and inventions responding to country development.

College lecturers and students applied their research works into innovative projects in sand box area on campus called 'Co-working Space' for Start Up Enterprise. An example of innovation development project was New Normal Trip: an online virtual orchard trip where fruit or souvenirs could be purchased through online application. Each year, 1 - 2 projects are done in accordance with College criteria (18.3.1), and led to best practices on applying applied research works and innovation development to new innovation (18.3.2).

### Achievement

Goal not achieved

### Self-Assessment on Issue 1 (18)

Goal	Performance	Self-Assessment
4	3	According to the standard of good

### List of supporting evidences

No.	List of supporting evidences
18.1.1	College policy on research
18.2.1	List of published applied research works and innovation development, ACY 2014 to 2019
18.3.1	List of research and development projects resulting from applied research works and innovation development, leading to new creations and inventions responding to country development
18.3.2	Best practices on applying results of applied research works and innovation development to new creations

### Aspect 3 Research Quality

#### Component 3.2 Quality of applied research and innovation development

**Issue 2 (19)** Ratio of applied research works and innovation development results that have been registered, such as petite-patents, patents and copyrights.

##### **Assessment criteria**

'Performance results are corresponding with criteria set by the college and higher agency with a clear direction on ratio of applied research works and innovation development results that have been registered, such as petite-patents, patents and copyrights. OHEC quality level criteria will be brought to consider performance results.', and

'Good management in accordance with criteria set by institute, applied research works and innovation development results have been registered, such as petite-patents, patents and copyrights, OHEC quality level criteria will be brought to consider performance results ', and

'There is a good tendency of management according to institute missions and objectives, with the future management plan focusing on the ratio of applied research works and innovation development results that have been registered, such as petite-patents, patents and copyrights. OHEC quality level criteria will be brought to consider performance results '.

##### **Performances**

Performance results in ratio of applied research works and innovation development results that have been registered, such as petite-patents, patents and copyrights are as follows:

1. College set up goal to register at least one applied research works and innovation development corresponding to institute context and country development as petite-patents or patents or copyrights annually. (19.1.1).

2. From ACY 2014 to 2019, college lecturers had synthesized their applied research works and innovation development corresponding to institute context and country development and produced 10 published copyrighted books and textbooks that meet college criteria. (19.2.1).

3. There is a good tendency of applying results of applied research works and innovation development to produce books and textbooks. At the present time, many books and textbooks are in the registration processes. In addition, some documents are in Start-up projects. Those productions are expected to be completed by ACY 2021. (19.3.1) The

performance results has led to led to best practices on applying applied research works and innovation development to register as petite-patents, patents and copyrights. (19.3.2)

**Achievement**

Goal not achieved

**Self-Assessment on Issue 2 (19)**

Goal	Performance	Self-Assessment
4	3	According to the standard of good

**List of supporting evidences**

No.	List of supporting evidences
19.1.1	College policy on research
19.2.1	List of copyrighted books and textbooks
19.3.1	List of research and development projects in Start-up project
19.3.2	Best practices on applying applied research works and innovation development to register as petite-patents, patents and copyrights

**Aspect 3 Research Quality**

**Component 3.2 Quality of applied research and innovation development**

**Issue 3 (20)** Ratio of applied research works and innovation development which can be applied to any context and situations, or received research grants to conduct further or advanced research from external organizations.

**Assessment criteria**

“Having the performance results which are best practices in the ratio of applied research works and innovation development that can be applied to any context and situations, or received research grants to conduct further or advanced research from external organizations according to the OHEC criteria”.

## Performances

Performance results in the ratio of applied research works and innovation development that can be applied to any context and situations, or received research grants to conduct further or advanced research from external organizations are as follows:

1. College set up goal to get at least one applied research works and innovation development to produce production or to receive research grants to conduct further or advanced research from external organizations annually. (20.1.1)
2. In term of applying applied research works and innovation development, college lecturers had produced 4 innovative productions in teaching and instructional methods which were also cited in many academic areas. (20.2.1).
3. In term of applying applied research works and innovation development, college lecturers had produced 12 digital media productions (short films) which were received good feed backs from many interested persons and organizations. (20.3.1).
4. In term of quality improvement of applied research works and innovation Development application, college lecturers had received 1 research grant to conduct further research from government organization (Teachers Council of Thailand) on the topic of PLC and e-PLC in Teaching Profession. (20.4.1).
5. In term of quality improvement of applied research works and innovation development application, college lecturers had received 1 research grant to conduct further research from private organization in tourism issue. (20.5.1).
6. College had best practices on PLC and e-PLC in teaching profession which were recognized by Teachers Council of Thailand. (20.6.1).

## Achievement

Goal achieved

### Self-Assessment on Issue 3 (20)

Goal	Performance	Self-Assessment
4	4	According to the standard of good

### List of supporting evidences

No.	List of supporting evidences
20.1.1	College policy on research
20.2.1	List of applied research works and innovation development which had applied to produce innovative teaching methods with 4 citations in academic areas
20.3.1	List of applied research works and innovation development which had applied to produce 12 digital media short films productions
20.4.1	List of applied works leading to production or receiving further research grants from government organization
20.5.1	List of applied works leading to production or receiving further research grants from private organization
20.6.1	Best practices on PLC and e-PLC in Teaching Profession

### Summary of Aspect 3

#### Strengths

1. Best practices for works the quality development of research corresponding to institute context and/or country development
2. Best practices for the quality development of research works and innovations in order to be cited in published academic journals.
3. Best practice for research proposal or project writing in order to receive funds from national organizations or enterprises.
4. Best practices on applying results of applied research works and innovation development to new creations.
5. Best practices on applying applied research works and innovation development to register as petite-patents, patents and copyrights.
6. Best practices on PLC and e-PLC in Teaching Profession.

#### Guidelines for quality improvement

1. Increasing ratio of research funds from outside organizations at national or international level.
2. Increasing numbers of registered research works to get petite-patents, patents and copyrights.