

# THE STUDY OF RESEARCH COMPETENCY OF PROFESSORS OF THE FACULTY OF EDUCATION IN RAJABHAT UNIVERSITY OF RATTANAKOSIN GROUP.

**Kannika Bhiromrat**

*Faculty of Education, Suan Sunandha Rajabhat University, Bangkok Thailand*

*E-Mail: [kannika.bh@ssru.ac.th](mailto:kannika.bh@ssru.ac.th)*

## ABSTRACT

The purpose of this research was to study the research competencies of professors of the Faculty of Education in University of Rattanakosin group. The sample group of this research is 166 professors from the Faculty of Education from Rajabhat University in the Rattanakosin group, which is Chandrakasem Rajabhat University, Thonburi Rajabhat University, Bansomdejchaophraya Rajabhat University, Phranakhon Rajabhat University And Suan Sunandha Rajabhat University. The instrument used in this research were the 5-level estimation scale questionnaire with the reliability of 0.748 and the statistics used for data analysis are mean and standard deviation. The research found that the professor of Faculty of Education in The university of Rattanakosin group has overall research competency at a high level. When considering each performance, it was found that the basic knowledge of research, research skills and the attitude towards research has a high level of competency.

**Keywords:** Competency, Research, Professor of Faculty of Education, Rajabhat University

## INTRODUCTION

Rajabhat University is a tertiary education institution that provides teaching and learning in accordance with the national higher education qualifications framework 2009 with a focus on improving the quality of graduates at all levels and degrees. In accordance with the learning standards that the Higher Education Commission has set in 5 areas include moral, ethical, intellectual skills, interpersonal relationships skill and responsibilities, numerical analysis skills, Communication and use of information technology. [1] Rajabhat University has a variety of teaching and learning, such as Faculty of Education. Faculty of Science and Technology Faculty of Humanities and Social Sciences Faculty of Management Science Faculty of Industrial Technology, Faculty of Fine Arts, etc. [2] Rajabhat University has carried out the mission of higher education institutions in 4 areas, namely teaching, research, academic services to society and the maintenance of art and culture especially research, because research is creating knowledge Which will lead to decision-making in solving problems, developing and creating competitiveness To carry out the research mission to achieve that, Professor are considered important factors because they are directly responsible for the main line of work. [3][4]

Faculty of Education is the faculty that has the main duties in producing professor at the undergraduate level. In order to teach students in basic education level in early childhood, primary and secondary levels. In which the Faculty of Education conducts teaching and learning for students in accordance with the announcement of the Ministry of Education on Bachelor's degree qualifications Department of Education (Five-year course) Requires that graduates desirable to be knowledgeable and able to apply the insights into the theory and methodology of research to create new knowledge, Creative initiative to solve problems, the ability to consider seek and recommend ways to solve academic problems, The ability to

follow all the developmental sciences and are always committed to improving their performance. As for those who have an important role to develop students to meet the standards of education in education and education is the professor. Therefore, the professor always be a person who develops himself both in teaching and learning and research. The research will be a method of acquiring new knowledge. To bring students to develop Because research is a process of acquiring the truth of various phenomena with scientific methods. Which has been recognized as a method that has a system that is rational and reliable. [5]

Faculty of Education of Rajabhat University in the Rattanakosin group Which consists of 5 Rajabhat Universities, namely Chandrakasem Rajabhat University , Thonburi Rajabhat University, Bansomdejchaophraya Rajabhat University, Phra Nakhon Rajabhat University And Suan Sunandha Rajabhat University considered as a unit with a relatively low ratio of research work to the number of lecturers Because in the latter period, the university staff had been accepted to work instead of the retired professor continuously. Most of them found that they had no research experience. Still lacking the right direction for conducting educational research and still lack knowledge about research methods. Resulting in a small number of research or publication in academic journals of the Faculty of Education. However, if there is no research development for professors in this group, it will affect the development of knowledge or innovations that will be used for teaching and learning. Quality Assurance and the development of potentials or capabilities of professors in the future.

Therefore, the researcher is interested in studying the research competencies of faculty members of the Faculty of Education in Rattanakosin group. In order to put the results of research into the policy of developing professors to have knowledge and skills and quality research skills Because research competencies are important in professional development and teaching It can also use research to be a tool for community development society and nation.

## **OBJECTIVE**

To study the research competencies of professors of faculty of Faculty of Education in Rattanakosin University.

## **METHODOLOGY**

A study of the research competencies of Professors of the Faculty of Education, University of Rattanakosin group. The researcher has the methods of research as following

### **1. Population and samples**

The population used in this research were 284 professors of the Faculty of Education from Rajabhat University in the Rattanakosin group, consisting of 5 places which are (1) Chandrakasem Rajabhat University (2) Thonburi Rajabhat University (3) Bansomdejchaophraya Rajabhat University (4) Phra Nakhon Rajabhat University (5) Suan Sunandha Rajabhat University.

The sample group used in this research is the professors of Faculty of Education from Rajabhat University in the Rattanakosin group, which are (1) Chandrakasem Rajabhat University (2) Thonburi Rajabhat University (3) Bansomdejchaophraya Rajabhat University (4) Phranakhon Rajabhat University (5) Suan Sunandha Rajabhat University By estimating the sample size from the Yamane formula At a 95% confidence level [6] which requires a sample of 166 professors. The samples are then selected by Simple Random sampling in order to be representative of the study population.

## **2. Instruments for data collection**

The instrument used in this research was a research competency questionnaire of professors of the Faculty of Education, Rajabhat University in Rattanakosin Group. Which is a 5-point rating scale with the steps to create and check the quality as follows

2.1 Study the definitions, theories, documents and related research. To be used as a guideline for creating questionnaires.

2.2 Write a definition of operational terminology related to research competency, which can be divided into 3 areas which are (1) research fundamentals (2) research skills and (3) attitudes towards research.

2.3 Create a research competency questionnaire which is a 5 level rating scale.

2.4 Take the test to 5 experts to check the content validity by finding the consistency index between questions and objectives (IOC) between 0.80 - 1.00.

2.5 Take the questionnaire that has been selected to try out with 30 non-sample instructors and take the result from the questionnaire to be evaluated according to the following criteria.

5 points mean the research capability is at the highest level.

4 points means the research competency is at a high level

3 points means the research ability is at a medium level.

2 points means the research capacity is at a low level

1 point means the research capacity is at the lowest level.

Then take the result to find the average And standard deviation And then compare the level of research performance With the following criteria: (Boonchom Srisuk, 2013: 209)

The average score between 4.50 - 5.00 means that the research competency is at the highest level.

The average score between 3.50 - 4.49 means that the research competency is at a high level.

The average score between 2.50 - 3.49 means that the research competency is moderate.

The average score between 1.50 - 2.49 means that the research competency is low.

The average score between 1.00 - 1.49 means that the research performance is at the lowest level.

And using the results from the questionnaire to check for confidence The reliability of the questionnaire using Cronbach's Alpha coefficient formula is 0.748.

2.6 Publish questionnaires To be used to collect research data

## **3. Data analysis and statistics used**

Statistics used in the analysis of research competency data of professors of the Faculty of Education, Rajabhat University in Rattanakosin group is mean and standard deviation.

## RESULTS

1. A study of research competencies of professors of the Faculty of Education Rajabhat Universities in the Rattanakosin Group, in overall, found that the professors had a high level of research competency ( $\bar{X} = 4.21$ , S.D. = 0.21). When considering each competency, it was found that the basic knowledge of research, research skills and the attitude towards research has a high level of competency in all aspects. With the research results shown in Table 1.

**Table 1**

**Mean and standard deviation of research competency of professors of the Faculty of Education of Universities in Rattanakosin group in overview**

Research capability	$\bar{X}$	S.D.	Interpretation
1. Basic research knowledge	4.14	0.25	High
2. Research skills	4.12	0.27	High
3. Attitude towards research	4.36	0.28	High
Total	4.21	0.21	High

2. A study of research competencies of professors of the Faculty of Education Rajabhat University in Rattanakosin Regarding the basic knowledge of research, it was found that the instructors had research competency in basic knowledge of research. The overall picture is at a high level ( $\bar{X} = 4.14$ , S.D. = 0.25). When considering each item, it is found that Article 1 defines research issues With the highest level of basic research knowledge Followed by Article 7, population and sample determination have basic knowledge in research at a high level And the lowest is Article 16, writing research articles have basic knowledge in research at a high level With the research results shown in Table 2.

**Table 2**

**Mean and standard deviation of research competency of professors of the Faculty of Education of University of Rattanakosin group in Basic knowledge in research**

Basic knowledge in research	$\bar{X}$	S.D.	Interpretation
1. Defining research issues	4.55	0.51	High
2. Study of related documents and research	4.24	0.46	High
3. Determination of research objectives	4.26	0.50	High
4. Research hypothesis	4.21	0.59	High
5. Writing a conceptual framework	4.31	0.61	High
6. Research design	4.10	0.73	High
7. Population and sample determination	4.35	0.62	High
8. Sampling used in research	4.02	0.51	High
9. Creating tools or research innovations	4.10	0.55	High
10. Research tool quality inspection	3.93	0.69	High
11. Collection of research data	4.13	0.57	High
12. Analysis of research data	4.12	0.62	High
13. Using statistics for data analysis	4.04	0.58	High

Basic knowledge in research	$\bar{X}$	S.D.	Interpretation
14. Interpretation and research summary	3.99	0.49	High
15. Research report writing	4.25	0.48	High
16. Writing research articles	3.76	0.59	High
17. Utilization of research results	3.96	0.61	High
Total	4.14	0.25	High

3. Study of research competencies of professor of Faculty of Education Rajabhat University in Rattanakosin Regarding the research skills, it was found that the professors found that the research competencies in research skills in the overall level were at a high level ( $\bar{X} = 4.11$ ,  $SD = 0.27$ ). data collection Having the highest research skills at a high level Followed by Article 29, writing a research report Have research skills at a high level and the lowest is Article 25. Data analysis with the finished program Have research skills at a high level with research results as shown in Table 3.

**Table 3**  
**Mean and standard deviation of research competency of professors of the Faculty of Education of University of Rattanakosin group in Research skills**

Research Skill	$\bar{X}$	S.D.	Interpretation
18. Research plan implementation	4.10	0.51	High
19. Creating individual research tools	4.17	0.46	High
20. Selection of research methods for quality testing	3.93	0.62	High
21. Calculation of statistics, formulas, calculation, tool quality checks	4.02	0.63	High
22. Contact and coordination in data collection	4.46	0.50	High
23. Selection of data collection methods based on data type	4.13	0.55	High
24. Selection of statistics for data analysis	4.08	0.59	High
25. Data analysis with the finished program	3.67	0.58	High
26. Presentation of research results with text or tables or charts	4.23	0.58	High
27. Translation of research results from statistical analysis	4.34	0.54	High
28. Using programs to write research reports	4.26	0.60	High
29. Writing research reports	4.36	0.60	High
30. Writing research articles for dissemination	3.75	0.62	High
Total	4.11	0.27	High

4. A study of research competencies of professors in the faculty of education of Rajabhat University in Rattanakosin group regarding the attitude towards the research of professor, it was found that the research competency in terms of attitude towards research in general was at a high level. The researcher considered each item, found that article 38 is honest with research findings and article 39 does not infringe the copyrights of others. The highest level of research attitude was in the high level. Followed by the article 36 rights of the population

and the sample. The highest level of research attitude was in the high level. And as low as article 34, conduct systematic research at the highest level of research attitude was in the high level. With the research results shown in Table 4.

**Table 4**  
**Mean and standard deviation of research competency of professors in the Faculty of Education in the university of Rattanakosin group in Attitude towards research**

Attitude towards research	$\bar{X}$	S.D.	Interpretation
31. Conducting research with determination and determination	4.45	0.52	High
32. Always search for new knowledge to be used in research	4.28	0.47	High
33. Have skills in analysis and synthesis	4.23	0.53	High
34. Conduct systematic research	4.20	0.47	High
35. Conduct research according to the action plan.	4.21	0.55	High
36. Respect the rights of the population and the sample	4.51	0.51	High
37. Responsible for the assigned research project	4.41	0.54	High
38. Be honest with research findings	4.52	0.52	High
39. Not violating the copyrights	4.52	0.50	High
40. Submit research results according to the specified time frame.	4.31	0.47	High
Total	4.36	0.28	High

## CONCLUSION AND FUTURE WORK

Based on the study of research competencies of Professors in the Faculty of Education in Rajabhat University of Rattanakosin group. The researcher can summarize and discuss the results as follows.

The study of research competencies of professors of the Faculty of Education in Rajabhat University Rattanakosin group found that the research competencies of the professors of faculty of education in Rajabhat University of Rattanakosin group has overall frame in a high level. When the researcher considered each competency, it was found that the basic knowledge of the research in research skills and the attitude towards research has a high level of competency in all aspects. This may be because Rajabhat University is a higher education institution under the Office of the Higher Education Commission (OCSC) that has the mission of the university professors to operate in 4 areas, namely teaching and learning, research, academic services and supporting cultural arts. In this research mission, all university professors must conduct research in order to develop teaching and learning management or to develop work in their own science. Therefore, professors must have knowledge, understanding and research skills including conducting research must be based on the ethics of the researchers. Therefore, the overall research result of the research competency of professors is at a high level. This is consistent with [7] have discussed the mission of a university professor to perform in four areas: teaching, research, service to the society. And the maintenance of cultural arts.

In addition, when considered by individual capacity found that the competency in basic knowledge of research, It can be seen that the professors have a high level of competency but

when considered individually, it was found that the knowledge about writing research articles had the least mean. This may be due to the fact that there are still some professors doing research and most are writing official research reports but the research results were not published in the form of article writing for publication in the Journal, it consistent with the research results of [8] that studying the empowerment model to enhance the research potential of Rajabhat University professors. It was found that there is still little publicity of the research work of professors for use or presentation at national and international academic conferences. Therefore, from this finding, the university should have policies and programs to promote knowledge and understanding and training to write research articles in order to contribute to a concrete dissemination or may exchange knowledge and experience in research by establishing a professional learning community (PLC) in order for professors to exchange new knowledge in education or ways of disseminating research results, which is consistent with the research of [9] conducted studies Professional Learning Community of professors: A Hypothesis Model Development and found that The teaching professional learning communities have been held considerable engagement for capacity to sustain improvement in many countries. Although some concerned evidences have suggested their positive impact on school improvement, understanding effective professional learning communities in school and research into their existence, operation, and effectiveness are still at a relatively early stage of development in many countries, also in Thailand. This article aimed to present the hypothesis model of professional learning community of professors in school wide culture and in accordance with the research results of [10] conducted a study on the implementation of research strategies of professors of Rajabhat University found that Rajabhat University should have a policy to continuously develop the capabilities of researchers from the results of this study, in order that the Faculty of Education may have an exchange, it should study the research competency components of the Faculty of Education in Rajabhat University or every university affiliated, to analyze the results of the research, to find ways to improve the research competency that is suitable for the development of the Faculty of Education professors.

### ACKNOWLEDGEMENTS

I would like to express my sincere thanks to Suan Sunandha Rajabhat University for invaluable help throughout this research.

### REFERENCES

- [1] Office of the Higher Education Commission. (2009). **National Qualifications Framework for Higher Education 2009**. Bangkok.
- [2] \_\_\_\_\_. (2013). **Bachelor degree qualification standards Pedagogy in Education (Five year course)**. Bangkok: Unilimit Priting Company co.
- [3] Charas Suwanwera. (2002). **The world research system and the Thai research system**. [Document file National Academic Foundation Conference Year 2002]. 25-27 November 2002.
- [4] Vicharn Panich. (1997). **Research Management: Concepts from experience**. 2nd Edition (revised version). Duangkamon publisher. Bangkok.
- [5] Wannee Kaemkate. (2012). **Research Methodology in Behavioral Science**. 3rd edition. Bangkok: Chulalongkorn University Printing House.
- [6] Suwimon Tirakanan. (2008). **Social Sciences Research Methodology: Guidelines for Practice**. 7th edition. Bangkok: Chulalongkorn University Printing House.

- [7] Office of Higher Education Policy and Planning. (2002). **Higher Education Development Plan, 9th Edition (2002-2006)**. Bangkok: Ministry of University Affairs.
- [8] Thitimawadi Charoenrat (2010). **Development of a Empowerment Model for Enhancing Research Potential of the professor of Rajabhat University**. Doctor of Education Thesis in higher education, Graduate school Chulalongkorn University.
- [9] Sucheera Mahimuang. (2017). PROFESSIONAL LEARNING COMMUNITY OF TEACHERS: A HYPOTHESIS MODEL DEVELOPMENT. International Academic Multidiscipline Research Conference in Vienna 2018, Pp 229-235.
- [10] Samaya Intarakaset (2012). **The Implementation of Research Strategies for Rajabhat University's professor**. Doctor of Philosophy (Public Administration), Graduate School, Ramkhamhaeng University.