A DEMAND OF INSTRUCTIONAL MANAGEMENT USING EDUCATIONAL INNOVATION FOR SUPPORTING A PRODUCTION OF PHYSICAL EDUCATION TEACHERS

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Abstract - This research aims to study1) supports of instructional management for supporting a production of physical education teachers, 2) needs of instructional management using educational innovation for supporting a production of physical education teachers. Population used in the research is 150 students, majoring in physical education, Bachelor of Education, Rajabhat Maha-Sarakham University. 109 students of the sample group are selected by using Yamane's formula (1973). 5 rating scale-questionnaires are used as a research tool. Statistics used for data analysis are mean and standard deviation. The study results find that 1) supports of instructional management for supporting a production of physical education teachers in overallis at a high level ($\bar{x}$=4.46,S.D.=0.50). When considering in each aspect, the study found that quality and quantity of supports of instructional management for supporting a production of physical education teachers ordering from high to low mean are 1)physical supports, facilitators, teaching materials, and services, respectively, 2) needs of instruction management using educational innovation in overall is at the highest level ($\bar{x}$=3.58,S.D.=0.68). When considering in each aspect, the results find that the needs of using educational innovations ordering from high to low means are innovations of teaching materials, instruction innovations, assessment innovations, curriculum innovations, and management innovation, respectively.

Keywords - Innovation, Educational Innovation, Physical Education Innovation, Instructional Management, Supports of Instructional Management, Learning Support, Teacher Production, Physical Education, Physical Education

I. INTRODUCTION

A preparation of Thai people to be ready and to have potentials for living in the 21st century as well as a drive of educational reform that is significant to potential development of Thai people are of importance, especially a quality of students which need to have knowledge and abilities that meet the expectations of Thai and world's society. A way of life of people in a new era wants to discover and use their own different potentials in high efficiency for their career and social contribution. Therefore, instructional management that aims to promote and develop students to develop differences of an individual is a discovery and a gain of different potentials between oneself and others which will later lead to working as a team. It is an important factor for strengthening the country. However, to have a successful the education management, it needs to develop teachers' quality and educational institution administration for developing instructional activities focusing on the differences between individuals and giving student a chance to develop themselves and their potentials. However, most of teachers are not able to develop an innovation at a classroom level for instructional management development that can meet the differences between individuals.(Mariam Ninpan, SiriwanWanitwattana-worachai, AtikamasMakjui, and RujirapornRamsiri, 2012) Educational management is a tool for developing people to have desired characteristics in order to adjust themselves to changes in the globalization era and to have an ability to stand in the midst of the economic crisis and have a potential in solving issues the nation encountered. Therefore, education is of paramount importance as the National Education Act B.E. 2542, defines in Section 1, general chapter, under objectives and clause in section 6 that education must be developed for the development of Thai people to have physical, mental, intellectual ready, as well as knowledge, morality, ethics and culture for living happily with others. Thailand's education values differences between individuals as stated in National Education Act B.E. 2542 that every learner has a leaning ability for self-development in which makes "learners the first priority" Hence, the educational management process must encourage learners to develop knowledge, their natural abilities and their potentials. The learning process should therefore take into account the differences between individuals, the practice of thinking process skills, situations management and applying knowledge to manage the problems in the society (Ministry of Education, 1999)

Bringing progress in science and technology for applying innovations in educational management will help to create learning and learners will be more able to develop themselves. Therefore, the government must promote research, a development of production and a development of technology for education, including monitoring and evaluating results of using educational technology to achieve cost-effective use and suitable for Thai learning process (National Education Act of B.E.2542). A direction of a

development of teachers and educational personnel of Ministry of Education requires teachers and personals competency which consists ofknowledge, skills, attitude, and personal characteristics that affects an efficient success of outstanding work and roles (Scott B. Parry, 1996as cited inTiwarat Prasertsung, 2016).
The Direction of Physical Education Teachers within 15 years (2008-2022) finds thatWanich and SasitornNirantranon, 2016)

1. factors in producing physical education teachers in must process systematically and input factors must be taken in to account. The process of teacher production of graduated physical education teachers must have a policy in reforming a curriculum of graduated physical education teachers and improve quality of teachers in institution of physical education teacher production by encouraging those who are good in sport to apply for the study.

2. Physical education teacher production process should consist of knowledge of the content of both health education and physical educations. The amount of physical education teacher production and the need for physical education teachers tends to decrease. Therefore, there should be policy committee to solve the problems of production of physical education teachers of the Ministry of Education and the Ministry of Tourism and Sports in order to set production targets to be consistent with the needs of physical education teachers at the regional and national levels

3. The quality of graduated physical education teachers requires deep knowledge and understanding ofcontents, concepts, principles, and theories involving physical education, various teaching techniquesthat can integrate physical education with other subjects in order to create positive attitude toward physical education, and ability to conduct activities for special needs students. The physical education teachers should be able to speak at least 2 languages, including Thai and English and should be able to apply knowledge in computer science and technology in teaching physical education and have the ability to develop school curriculum to be in accordance with the goals of educational reform.

A development of teachers and instructional management of physical education teachers in the 21stcentury needs to change a role of the physical education teachers from instructors to facilitators, guidance, and learners. Moreover, any issues that obstruct A development of teachers and instructional management of physical education teachersneed to be solved and covered a guideline of teacher development in aspects of policy and self-development of physical education teachers. This requires self-responsibility and cooperation of every section. Another important fact is the awareness of the importance of physical education that promotes 21st century skills, and a use of ICT in a development of teachers and instructional management for higher efficiency as well as adapting a role to a change on world's situations of physical education (PongekSooksai, 2018).

II. RESEARCH METHODS

2.1. Population and sample group

Population in this research is 109 of first to fifth year students, majoring in physical education, Bachelor of Education, Rajabhat Maha-Sarakham University which selected by using Yamane's formula (1973)

2.2 Data collection is done within 1 week by using questionnaires about needs of using educational innovations for supporting physical education teachers.

2.3 Tools for data collection

5 rating scale- questionnaires are used which consist of 20 questions on instruction management supports and 25 questions on needs of using educational innovations for supporting physical education teachers

2.4 Statistics used for Data Analyzation

Statistics used for data analyzation are means, standard deviation, in which are analyzed from questionnaires.

III. RESEARCH RESULTS

3.1. The results of supports of instructional management for supporting a production of physical education teachers in overall is at a highest level ($\bar{x}$=4.46,S.D.=0.50). When considered in each aspect, the results ordering from high to low mean are physical aspect (such as classroom, operation room, conference room, living room for students, and multi-purposed yard (such as classroom, operation room, conference room, living room for students, and multi-purposed yard ($\bar{x}$=4.68,S.D.=0.48), followed by learning facilitators (such as Audio-visual equipment, tools and equipment, network and internet systems, utilities, lectures and environments) ($\bar{x}$=4.54,S.D.=0.55) (such as books/textbooks/teaching materials,journals/booklets,thesis,sport and physical education equipment/equipment,and electronics) ($\bar{x}$=4.41,S.D.=0.53) (such as over-time service of operation room, over-time service of student living room, over-time service of conference room,equipment circulation service, over-time printed-media circulation service) ($\bar{x}$=4.21,S.D.=0.46) respectively. Moreover, there are suggestions which are 1) supplying physical education/ sport equipment to meet the needs and interests of learners besides that curriculum requires, 2) there should be

circulation-service of physical education equipment in order to encourage the learners to develop their physical competency, sport skills, and knowledge on sports, 3) the equipment/ materials of physical education should be kept and organized safely for the safety and max benefit of the learners.

3.2 Results of a data analysis in of a demand of instructional management using educational innovation for supporting a production of physical education teachers in overall is at a high level ($\bar{x}$=3.58,S.D.=0.68).When considered in each aspect, the results ordering from high to low mean are teaching material innovations (develop and create new teaching materials, produce teaching materials using technology competency, produce teaching materials that support a training, using teaching media on computers,using teaching materials that suit self and group learning as well as mass learning) ($\bar{x}$=4.80,S.D.=0.40), instructional innovation (revise and create new teaching methods using a system, develop new teaching methods using new technology for managing and supporting the teaching, develop teaching methods that can respond to participatory learning) ($\bar{x}$=4.63,S.D.=0.50), assessment innovations (develop and produce new teaching materials, produce teaching materials by using technology,produce teaching materials that support a training, using teaching media on computers, using teaching materials that suit self and group learning as well as mass learning) ($\bar{x}$=4.16,S.D.=0.45),curriculum innovations (Develop curriculum to be consistent with the local environment, integrate the components of the curriculum in various fields of science, respond to individualized educational management concepts, focus on the process of organizing activities and experiences for learners to lead to success and changes that are consistent with the technological, economic, and social progress of the world) ($\bar{x}$=3.79,S.D.=0.52), and followed by management innovations (such as using information for management,fast decision-making for constant changes of the world, security system, being able to search and retrieve data at all time, co-development in various aspects for efficient use) ($\bar{x}$=3.58,S.D.=0.68), respectively.Moreover, there are more suggestions as follows:1)more new teaching materials should be added with computer technology and internet network, such as AR: Augmented reality, distance learning, live streaming, 2)there should be both online and offline teaching.

IV. SUGGESTIONS

4.1 **Suggestion for application**

1) Educational institutions should use this research results as a guideline for producing high potential physical education teachers.

2) Instructors who teach bachelor degree students, major in physical education should use the results of this research to develop the educational innovation producing high potential physical education teachers in compliance with teaching profession standard.

4.2 **Suggestions for further research**

1) factors that affect the use of educational innovation for the preparation of the production of physical education teachers should be studied.

2) Educational innovations that enhance the competency development of physical education teachersshould be studied.

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