INTERNATIONAL EXPERIENCE IN ORGANIZATION OF TEACHING PRACTICE IN TEACHER TRAINING AND SOME RECOMMENDATIONS

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ABSTRACT
Given the strict guideline and significant innovation from the Laos Government, there are certain limitations in teacher training in Laos. This paper focuses on selected internationally published works on training teaching skills for prospective teachers (pre-service teachers) with document analysis method on articles and books of authors outside Laos. Subsequently, some recommendations to help innovate the pre-service teacher training process in Laos would be proposed in order to contribute to the development of teachers’ pedagogical competencies. It is suggested that the time allowance for pedagogical practice in high schools with the guidance of expert teachers, possibly through lesson planning and micro-teaching be increased. It is also necessary to pay more attention to equip teacher trainees with skills in using information technology and software in teaching (in particular pre-service mathematics teachers).

1. INTRODUCTION
Education is dynamic and subject to change; as a result, teachers are required to be able (and willing) to adjust their teaching to overcome new challenges from their working environment and the society in general. Nowadays teachers are expected to meet new demands, ranging from contributing to social welfare in an increasingly more individual-oriented society; keeping pace with technological developments, realizing educational innovations and fulfilling tasks at school organizational level (Beijaard, 1992).

Teacher education (teacher training in pedagogical universities) cannot provide expert teachers, but it must be possible to contribute to the development of personalities who are able and willing to become expert teachers.

The paradigm approach sees good or adequate teaching as the expression of a group of three strategies: (1) mastering specific teaching ‘skills’ which can be identified (‘training’ paradigm), (2) being able to critically reflect on personal and situational teaching aspects and (3) teaching based on experience through reflection-in-action (Tillema, H.H., 1991).

There are some research reports on widespread dissatisfaction with the quality of pre-service teacher training due to a host of factors, including a dichotomy between theory and practice, excessive fragmentation of knowledge and a tenuous tie between teacher-training institutions and the schools where teachers exercise their profession (Leonardo López-Neira et al. t., 2020). There is a gap between knowing about teaching and practising teaching (Ball and Forzani 2010); that is, what teachers do in the teaching process may be inconsistent with what they learned at pedagogical universities. Therefore, the enhancement of teaching training activities with guidance may be a way for teacher preparation programs to bridge such a gap between knowing and doing.

This study aims to provide recommendations for innovation in teacher training in Laos, with a focus on developing the pre-service teachers’ teaching capacity (in the case of pre-service mathematics teachers).

2. LITERATURE REVIEW
The implementation of the training module on classroom interaction strategies based on complementing traditional classes with the use of an interactive digital game significantly improved the level of recognition, capacity for analysis and coherent design of classroom verbal interactions in pre-service student teachers ((Leonardo López-Neira et al. t., 2020).

For many educators around the world, research-based lessons are the key to analyzing and understanding what actually happens in the classroom. These lessons require professional knowledge to face the complexity of classroom practice (Hobson et al., 2009; Loughran, 2016).
The paper provides empirical insights into the way lesson study reinforced the pre-service teachers’ classroom management and lesson planning skills (Maria Laura Angelini, Neus Álvarez, 2017).

The ability to do or participate in research can be seen as an aspect of a teacher or teaching competence because it: (1) stimulates a teacher’s confidence and communicative skills (also with relevant academics), (2) supports a teacher’s flexibility in terms of an increased tolerance with respect to ambiguity and uncertainty, (3) stimulates intellectual competencies like perception, understanding and judgement and (4) prevents a teacher from not only being occupied with means but also with outcomes. It is also worth studying the pre-service mathematics teacher (PMT) implementation study that undertakes pedagogical practice, such as the study of teaching, not just actual implementation. That is, through teaching practice, PMT needs to study the student’s learning process, review the application of reasoning in teaching, and re-study teaching contents such as program knowledge, academic knowledge and pedagogical transformation knowledge as well.

It is essential to place concrete student-teacher learning in the context of personal development in relationship with being a teacher according to general and context-specific demands (macro-genetic planning of education) (D. Beijaard, 1994). This highlights the appreciation of the role of vocational skills training, which is placed in practical career contexts.

The remarkable study by Wubbels (1992) gives some of the following recommendations for new graduates. For becoming a professional teacher, Wubbels (1992) proposes the following structure for ‘in-service’ teacher education:

1. a period of two years after pre-service education, in which the teacher is called a junior teacher who teaches a limited number of lessons under the supervision of an experienced colleague; in this period the teacher also participates in schooling activities (for example with regard to curriculum development, tests and research);
2. a period of several years in which the teacher does everything a teacher normally does and in which perspectives are developed for further professionalization;
3. a remaining period characterized by differentiation of tasks among teachers based on additional education (for example, with regard to didactics, middle-management and guiding for students).

Of course, in many countries, such an implementation is not quite feasible. For Laos, this can also be taken into account in the process of teacher training in pedagogical schools. For example, for 3rd and 4th-year students, it is possible to do activities 1 and 2 as suggested by Wobbles.

Research by Jing Cheng (2017) shows that micro-teaching and the support of high school teachers with experience in teacher training are very meaningful and effective. This research indicates that micro-teaching guided by expert secondary mathematics teachers can help pre-service teachers attend to precision in their classroom teaching, yet some lack of precision in performance was still observed in the pre-service teachers’ lessons. The guidance and the exemplary lessons of expert teachers played an important role in changing the pre-service teachers’ performance (Jing Cheng, 2017). Research has shown many deficiencies in language, expression, teaching
organization, student interaction, or teaching skills (such as drawing pictures, answering questions or not responding to errors of students) of the future math teacher (PMT). Furthermore, the fact that they can work with expert teachers helps them to learn and evolve, rather than working with only peer students. Since then, the study recommends that teacher training in the form of micro-teaching also needs to be changed in the direction of practices, not just the interaction between pre-service teachers (pre-teachers). There is also a need for the role of expert teachers in class. This comment is a meaningful recommendation for the training of math teachers in particular, teacher training, in general, owing to the changes in training processes and methods.

A qualified mathematics teacher needs to solve math problems correctly, express it normatively and reason it rigorously; most of the expert mathematics teachers pay much attention to precision when guiding the teaching practice and providing the exemplary lessons. From an Oriental perspective, expert teachers also play a role as teacher educators (Yang 2013). For example, a new teacher is usually assigned to an experienced teacher as his/her mentor. The mentor will help the pre-teacher in a comprehensive way from lesson preparation to assignment correction. A policy implication is that exemplary teachers’ support is significant for teacher preparation programs, in order to supplement the training and elevate it to a relevant high level (Wang and Gu 2007).

Teaching consists of personal, contextual, professional, moral and emotional dimensions, which is primarily expressed in practice. In this practice, teaching can be characterized by (Lowyck, 1984): + multidimensionality: different students, divergent reactions and activities and; + interruptions; + simultaneity: many occurrences at the same time; + immediacy: little time to think for teachers; + unpredictability: it is impossible to predict what will occur with certainty so it is challenging to decide unequivocally; + dependency on time: activities, decisions or events have consequences for following situations.

In general, a teacher’s knowledge base encompasses knowledge of subject-matter, subject-matter related academic or didactic knowledge and knowledge of parts of educational theories.

The study on how to train science teachers in South African by Wiets B. et al. (2020) gives a recommendation on organizing a lesson study for pre-service teachers during the training process. In this study, the generation of knowledge was inseparably associated with the collaborative practices and interaction that existed between the team of pre-service teachers. The lesson study approach allows an engaging space characterized by values of trust, respect, support, and empathy for each other. The collaborative practices that form part of the team dynamics challenge the conventional belief that teacher educators are the ones in power who poses absolute knowledge. This approach symbolizes the collective role that the team of pre-service teachers play in the structuring of lessons.

Another approach, related to the exploitation and use of information technology in teacher training as well as contributing to the development of the capacity to use information technology in teaching Mathematics presented by Monika Dockendorff & Horacio Solar (2017) shows that incorporating an ICT into the mathematics education courses contributes not only to efficient use of technology for mathematics teaching and to promoting a more dialogical teacher role in the classroom, but also to the modification of conceptions about mathematics and its education. By way of using ICT (GeoGebra), pre-service teachers reconfigure his mathematics teaching conceptions from different dimensions. Similarly, Ilhan Karatas (2014) offers empirical evidence that pre-service mathematics teachers’ experiences in computer-based mathematics courses played a significant role in this change. Teacher education programs should consider this learning method for pre-service teachers. Learning and teaching experiences with computers are significant factors in changing pre-service teachers’ beliefs. This finding is also important for implementing reforms in mathematics education.

Some studies in Vietnam have suggested a number of techniques or measures to develop teaching capacity for mathematics pre-service teachers. Le D.C (2017) shows that organizing seminars in teaching Mathematics teaching method for students in Primary Education would help develop teaching capacity for students. Nguyen Duong Hoang (2008) proposes a number of solutions to organize the training of teaching skills: Building and developing a program of Math teaching method, integrating skill training into each knowledge circuit of the method of Mathematics teaching, performing regular pedagogical activities, installing and exploiting effective teaching facilities and strengthening skills in using information technology for students.

3. RESEARCH METHODS AND RESULTS

3.1. Research methods

This study is conducted using document analysis method. To propose some suggestions for modifying or changing the teacher training program, the documents included in the analysis include the two following categories:
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4. DISCUSSION AND CONCLUSION

Developing teaching competencies for future teachers has been increasingly concerning the Ministry of Education and Sports of the Lao People’s Democratic Republic. This topic has long appealed to many researchers in
the world, which results in the introduction of various techniques, proposals, and requirements for innovation in the training process to develop teaching capacities for future teachers.

The recommendations we propose based on the analysis of previous studies hopefully would contribute to preparing future teachers for their initial post-graduation stages of practising pedagogy at school. These recommendations also aim to help pedagogic schools to innovate the process and organization of training professional skills for future teachers. More specifically, it is necessary to have an appropriate investment in time and the approach to develop professional skills for teacher trainees.

REFERENCES


