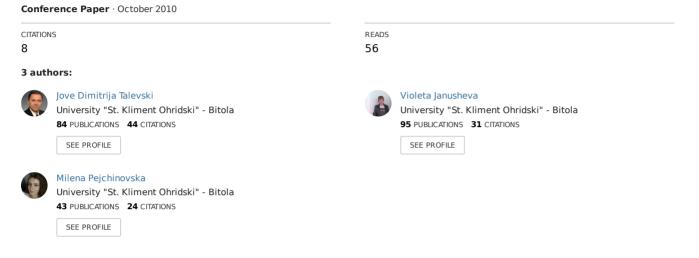
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LEARNING THROUGH RESEARCH, A POSSIBILITY FOR PERMANENT PROFESSIONAL IMPROVEMENT OF THE TEACHING STAFF IN THE ELEMENTARY EDUCATION

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ABSTRACT: The aim of the program Learning through research is an in-depth cognition with teachers for the importance and the role of the research tools in the educational process and the professional improvement of the teachers for their effective use. The idea for this kind of education came as a result from the need of the teacher to organize the curricula in an optimal way, to make the right choice for the research tools depending on the content that is being taught and with that, to improve the activity and the participation of the students in the Educational Process (EP), and that is part of the tenets of the permanent improvement of the teaching staff. The program, in its core, amounts to the improvement and professional improvement of the teaching staff which will be able to effectualize the process of learning, and with that the students will be actively involved in the process of learning, will develop their creativity, independence, critical thinking, will plan by themselves, evaluate, improve the communication through mutual interaction relations, will take initiatives and est., which will further on, influence their motivation and making bigger their interest for the curricula in general.

KEYWORDS: research tools, improvement of the teachers, active learning

INTRODUCTION

How much attention is being paid to the professional improvement of the teachers? How much effort is being put into the professional improvement of the teachers by themselves? Whether and how much the management takes care for the professional improvement of the teacher? Is the professional improvement planned or spontaneous? How much is the professional improvement connected to the needs of the teachers, the students and the improvement policy of the school in general? And at the end, how much is being invested in the professional improvement of the teachers by the Ministry of Education and the Bureau for improvement of the education as key factors in prompting the professional improvement of the teachers1.

The professional improvement of the teachers is the most important segment of a wholesome and systematic reform¹. The number of experts that

¹ The research methods (RM) underline setting certain questions or problems that need finding answers for; through the research methods students face authentic situations similar to those in the real life, and can later handle the situations much easier; with the RM every intellectual capacity of the students is put into work through placing the students in real situations, students learn how to learn critically, to research, to seek answers for their questions, to collaborate mutually, to work in teams, etc.

examine the factors that influence the success and the students' achievements is great and they all agree that the teacher has the key role. The schools in their improvement plans have to take into consideration the necessity of continuous professional improvement of the teachers, as the need for creating a stimulative environment both for the students and the teachers. The professional improvement of the teachers is a continuing process that does not need to ever stop. The pledge for effective, efficient and qualitative professional improvement of the teachers should be an imperative for the activities of all of the people involved in the teaching process.

In this sense the Ministry of Education and the Bureau for educational improvement in the Republic of Macedonia, with the continuant organization for training programs for professional improvement of the teachers that reflect directly on the melioration of students' achievements, as for the promotion of the work of the teachers, in all segments of the educational process, shows that it makes great efforts for making the professional improvement of the teachers more and more efficient. These activities reflect the vision that they have for the education as a crucial segment and a

¹ Teachers' development in relation to evaluation, Talevski, J., Janusheva, V., Pejchinovska, M., Stojchevski, V. 2010, Faculty of Education, Bitola, in writing

pillar of every modern society that has as its goal an education that will have its base on its own specific values, and educational system compatible with those in the highly developed countries, and education that will recognize the spirit of the European and world trends in itself.

The professional improvement of the teachers organized through workshops with various themes and realized by the most reputed service bidders², really fulfils its role and has all of the characteristics of the new approaches towards the professional improvement: implements a whole new process of changes in the school; includes all of the teachers in the professional improvements in this way and its implementation; it is an organized type of professional improvement; it is being concentrated around cooperative and collaborative problem solving; it is concentrated on great number of sources for information for the teachers knowledge, it is being organized and realized in the work environment of the teachers and etc.

In the framework of the project Modernization of the education, initiated by the Ministry of Education and the Bureau for educational improvement of the Republic of Macedonia, the program Learning through research³ is being realized. The contents of the Program for improvement are a reflection for the strive to melioration of all the segments of the teaching process and reflect the pledge through didactic-methodological making of the curricula by implementing the research techniques, to continue with the process for professional improvement of the teachers and to enlarge their capability to actively enroll the students in the educational process.

At the same time, the contents of the Im-

² The Ministry of Education and the Bureau of educational development of the Republic of Macedonia, in the framework of the project Modernization of the education, with the financial support of the Holland Government, there is an open call for realization of trainings, for the teachers in elementary education, with different contents that are relevant for the teaching process (the contents are set according to previous analysis for the needs of the teachers and students). The schools have freedom in the choice of the bidder of the service and in the choice of the contents that reflect their needs for working with students, so the needed attention that is being paid to the professional development is obvious. In November 2009, there was such a call, and in 2010 the bidder of the program, The Faculty of Education from Bitola, got the accreditation for several programs, among which Learning through research.

provement program are a support in the thrive of every school to be able to respond to the challenge of the new time in its work, to enable its students to develop the creativity, independence, critical thinking, communicative skills, to solve concrete problems and to be put in a authentic experience situations, that is, all of the skills that will need a future citizen to be competitive and ready to answer the needs in the labor market.

1. Learning through research-a possibility for a continuing professional improvement

The program Learning through research is realize through theoretical and practical work with the teachers in the elementary education by the following content: research process, characteristics and implementation of the research, goals of the research acts in the curricula; tasks of the teacher and the students in the research acts in the curricula; retrospection on the mentoring role of the teacher in the research; the significance and the role of the types of the teaching work in the process of the research- individual and group approach in the implementation of the research acts; observation in the curricula - components, phases and types of observation; questionnaire and interview and their implementation in the curricula; case study - who, when and where can one use case study?; role play and experiment and its implementation in the curricula. The more appropriate the teacher can model the curricula in a didacticmethodological manner using these tools, the more the results will be much more satisfactory and in that sense, the accent is put on the significance of these acts in the curricula. With the teachers that were a part of the training, the need for better indepth knowledge from this area of study was very obvious and, in the light of the implementations of these contents in the curricula with a special attention paid to their practical use.

It was of an utmost important that the teachers through group discussions and exchange of experience and ideas, they came to some responses about the methodological-theoretical problems that they have been facing with in everyday practice, especially related to defining the hypothesis and dependant and independent variables. The project was presented as an opportunity to pass forward the acknowledgements from the science theory and the practice from the Faculty of Education to the target groups that represent the staff employed at the faculty and from nearness faculties. In that way there was continuity in the acknowledgements in

³ The program included seven elementary schools and 87 teachers from the elementary education in the Republic of Macedonia.

order to improve the overall educational practice.

2. Objectives of the program Learning through research

The aim of this whole project and of this training in the framework of the project came out of the further improvement of the competencies of the teachers that are already a part of the educational system with hew strategies and techniques of the active learning and with didactic-methodical and methodological answers of certain problems in the active learning for improvement of the work teachers do, and with that improvement of the process of learning of the students and their achievements.

The basic aims of the training are:

- 1. The participants to learn, and to deepen their existing knowledge for the research method in the curricula as strategies of learning and teaching so that the students can be actively involved in the process of learning;
- 2. The participants to be able to implement the different research methods in everyday practice;
- 3. The participants to be become capable didactically and methodologically to model the everyday practice by implementing the research methods (observation, questionnaire, interview, experiment, case study, role play, research project, etc.).

In this light, the active involvement of the participants in the process of learning, the development of the creativity, independence, critical thinking through facing and solving the concrete and practical problems is towards what is the today school leaning to. The students have to be able to develop skills and characteristics that will enable them to enter in a competitive society where selfconscience, the critical attitude and the active practical acting will give them a qualitative life. The best knowledge, the development of the capabilities is a "fruit" right from the active involvement of the students in the process of learning, and in that process, the greatest role is that of the optimal implementations of the research methods, that start from the most simple encouragement of the children to ask questions and to seek answers, using certain source information, until they come up to some serious forms of questioning that include setting hypothesis and variables, gathering information, analyzing, confirming or negating the hypothesis and eliciting conclusions, with the possibility of practical implementation of the gained knowledge.

The curricula through implementation of these methods sum up to much more satisfying results. Therefore, the main objectives of the implementations of the research methods are for the teachers to become capable of placing their students in an active position to be able to face the changes and the problems and to enable them to be able to plan and estimate by themselves, for better communication through the interaction relations, to take initiatives etc.

3. Principles and methods of teaching adults implemented in the training of the teachers

The contents of the Program are based, foremost, on the principles and methods for adult teaching- everybody learns from everyone because everyone has knowledge (cooperative learning), the contents come out from life experiences that are relevant for the participants, everybody is changing through joint experience, self-confidence and respect is being built within the participants. The adults have a strong inner urge and motivation to learn something and are urged to use their own experiences as a source of information. They are put in front of problem situation where they are put in the active role. The techniques for teaching the adults included: experience techniques (group discussions, simulation exercises, activities that aimed towards solving problems, case study, etc.).

The techniques for training and the teaching methods included the following: presentations, brain-storming, demonstration, discussion in big groups (reflections, analyzing and implementation), simulation, role play, work in pairs, work in small groups, going round in circles; teaching methods: dialogue, working with text method, solving problems method, oral demonstration method.

4. Teachers' attitudes in relation to the training program *Learning through research*

The group discussions, the individual interests with the teachers in relation to the result of this program, and of programs from this kind in general, their reflections in the answer sheets and the evaluation of this Training program show that the attitudes of the teachers for this kind of training are in positive sense. Great numbers of teachers have emphasized the capability for having better results in their work. The teachers are highly motivated to enrich and to promote their educational practice through deepening their knowledge for the offered contents from the training program. They have

shown their readiness to implement the research methods in the everyday practice and are surer that with the research methods they will be able to motivate students. In that sense the pledge of the Ministry and the Bureau for educational development for professional improvement of the teachers and for implementing the system life-long learning into the educational system are being evaluated as more that satisfactory.

Further on, we are stating some of the statements that reflect the attitudes of the teachers related to the reasons for choosing this training program:

¹ The Ministry of Education in the Republic of Macedonia and the Bureau for educational development have the necessary competencies and expertise to start systematic activities for the professional development of the teachers because also for them, as relevant factors, involved in the teaching process, it is an imperative of the new age for the process of lifelong learning to become a part of the mental capacity and a part of the everyday practice of every citizen.

Table 1. Reasons for choosing the training program Learning through research

Teachers' statements	frequency
For better results in the teaching	2
Enriching the knowledge for solving problems in the educational practice	4
Enriching the knowledge for using the research methods in the curricula	5
Decision of the teaching body	1
The competence and professionalism of the trainers	1
Offers an opportunity for the teacher to be creative and to work with all the students	2
Enables easier and more familiar studying with the help of a research	3
For more qualitative and more interesting classes	1
Reminding of the research as a method	1
New aspects in the curricula/ quality trainers	1
Reminding of the knowledge about the research method in the practice, especially for the phases of the research method	2
Selected from the school as a whole unit	1
The more frequent recommendations for using the research in the process of learning	1
Gaining new knowledgements through the process of research	1
The need for professional development on this subject	1
More thorough and more in depth knowledge on this subject	10
A more qualitative teaching, motivating and an approach to the students	5
The need for in-depth knowledge of the knowledge	1
Connecting the theory with practice	3

CONCLUSION

The conclusion has imposed itself upon us. As it can be seen, the most frequent statements are the ones that highlight the pledges of the Ministry of Education and the Bureau of educational development, as the one of the trainers, the offered contents to find its implementation in the everyday practice. The quality of the realized program is of the highest level and it is characterized with a solid structure and wholeness of the organization. The fact that most teachers evaluate that the content of the Training program is useful for their further work is very satisfying. Most participants have highlighted the connection of the theory with practice as a very important component, which confirm the pledges of the Ministry of Education for revival of the training programs in the practice and the necessity of this kind of professional improvement. The contents of the training program have contributed to widening the knowledge of the teachers and there is a possibility which is highlighted for implementing the learned in the everyday educational work. In that way, the motivation of the teachers for didactic-methodological modeling of the curricula is shown, that is, for using the research methods in different segments of their everyday educational work. Generally speaking, the training program has come up to the participants' expectations.

Through this type of professional development, offered by the Ministry of Education and the Bureau of educational development, it more that clear that the teachers can function in their schools as teams for learning and with that, they can improve the model of professional improvement. The professional development organized and realized in this way represents a merit for the teachers and contributes for improvement of students' achievements, for improvement of the quality of the teacher's work and for improving the whole work-

ing climate in the school.

First of all, the learning teams are concentrated in the work atmosphere of the teachers. The learning teams represent a possibility for continuing professional development that is directly connected with the different needs of the teachers and the students. Actually, the needs of the teachers and the students direct their aims that the teams have to reach. They have a potential to secure a maintainable development because the culture of mutual research that is being passed on to the new teachers is being built with them.

We consider that this model of professional development offers a great deal of effectiveness and efficiency. The professional development of this kind is being realized in the work environment of the teachers. In the same time, we would like to highlight that the professional development of this kind requires a strong internal motivation from the teachers, a wish and a need for professional development with the purpose to improve students' achievements and to respond to the requirements of the new market society.

We once more, highlight that the schools in their development plans have to consider the necessity of the continuing professional development of the teachers and to encourage the teachers to make their own action plans. The action plans are a basis of the professional development of the teacher. It is very important for the action plans to be a part of the action plans of the learning teams in the yearly programs of the schools with the purpose for ensuring effective professional development and to improve the quality of the curricula in general. The action plans include possible activities that will take place for effective professional development, the reason for which these actions will take place, the way in which these actions will be carried out, an adequate role division between the team members as related to the activities and the time frame.

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