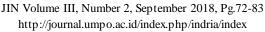
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# Project-based Approach in Immersed Model to Improve Teachers' Competence in Designing Learning

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Article History:	Abstrak
Submitted: Juni 2018 Approved: Agustus 2018 Published: September 2018	Penelitian ini bertujuan untuk meningkatkan kompetensi guru PAUD dalan memberikan pengajaran. Penelitian ini mengunakan model Penelitian Tindakna kelas dari Kemmis dan taggart. Subjek pada penelitian ini yaitu peserta yang terlibat dalan model immersed di kabupaten Situbondo, Jawa Timur. Model Immersed yaitu salah sati integrasi kurikulum yang dikembangkan oleh Fogarty berdasarkan pada bagaimana cara melibatkan kemampuan siswa dengan menggabungkan lebih dari satu aspek perkembangan untuk dapat melihat anak-anak dapat melakukan kegiatan mereka sendiri dengan cara yang menyenangkan dan membentuk kembali konsep-konsep bari dengan cara mereka sendiri. Kerangka kerja implementasi pada model ini adalah tema besar yang mencerminkan kemampuan siswa. Dalam penelitian ini, kerangka tema adalah tentang memperkenalkan pembelajaran anak usia dini yang berfokus pada membangun wawasan ke dalam cinta alam dan lingkungan untuk anak usia dini, salah satunya adalah memperkenalkan relawan dalam pencegahan banjir untuk anak usia dini.
Keywords: Immersed Model, Classroom Action Research, Project Approach.	

#### **Abstract**

This research aimed to improve the competence of PAUD teachers in providing instruction. This research used Classroom Action Research model by Kemmis and Taggart. The subjects involved in this research were participants who were involved in the model research with immersed model in Situbondo Regency, East Java. The Immersed Model is one of integrated curriculums developed by Fogarty which is based on how to involve students' abilities by combining more than one developmental aspect to see children able to do their own activities with fun and reshape new concepts in their own way. Implementation framework of this immersed model is a large theme that reflects students' abilities. In this research, the theme framework is about introducing early childhood learning that focuses on constructing insights into natural and environmental love for early childhood, one of which is introducing the volunteer in flood prevention for early childhood.

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## INTRODUCTION

integrated Preparation of curriculum development and involving children. according Vygotsky (in Sujiono, 2007) is a way implementing zone proximal development (ZPD) that can help childrens' progress in learning. Based on Piaget's opinion (Sujiono, 2007) about the process of learning for children with pre-operational stages, teachers create variations to help children learn about concepts. If the child assimilates or accommodates new knowledge in the scheme, then there should be an opportunity provided so that child can explore his experience of the information planted scheme. Therefore, the preparation of children's activities does not only consider how learning in the content area is carried out, but more importantly it must focus more on how the activity is designed so that each child's basic abilities get the opportunity to develop. The activities will carried out be able accommodate the stage of child's development as an integral part of the learning design.

Integrated learning based on

children's needs and interests developed through thematic concepts or topics which according to Dewey (Cremin 1961 in Wortham, 2006; 190) is used to be a direction for meaningful activities where children can be involved for a purpose. The activity was carried out with a project approach that was designed jointly by involving students. project approach is learning a method in which there are several objectives that are meaningful for the child. First, the practical objectives, is through activities, children understand complete can a connection between interdisciplinary relationships. Second, children can apply in the daily context because of the skills and attitudes that are through instilled these activities. Third, the project approach trains the development of children's abilities because most activities are carried out with the aim of solving problems, (Wortham, 2006; 190-191; Helm & Katz, 2001; -8: 129-135), Hildebrand. 1981; example, for gardening activities. children are trained to make their own decisions on how to lay out the garden and what plants are needed

for the garden.

This research started from an initial conducted study by researchers for community service activities in Sumber Pinang Village, Mlandingan Sub-district, Situbondo District. This village is a flood-prone village every year. The geographical location of the village below the hill of the Mount Argopuro makes the threat of flash floods can occur during the rainy season, which usually reaches the peak in February. Flash floods can occur because the hills that should be rich in large and hard woods have turned into production forests. This is why in certain years the hill is bare because the large timber on it meets the harvest and must be cut down. When the rainy season reaches its peak, flash floods can occur at any time because there are no plants that break the power of water.

The researcher thinks that it is important to improve teachers' competence in designing learning that focuses on constructing insight into natural and environmental love for early childhood.

## LITERATURE REVIEW

One known model is immersed model which according to Fogarty (1991) is developed so that students gain skills that integrated (internalized) in total from the learning experience they experienced. **Fogarty** likens the "immersed" skill like students filtering their own learning material content through a microscope lens that has four small lenses to see different samples. In other words, this model can integrate all data from a variety of learning sources and disciplines, by bringing out one main competence based on intense interest. In advanced the stage, students internalize and generate motivation in them (intrinsic) to be apply their understanding to able both with little help and without assistance at all (Fogarty, 1991).

Chaterwood (1999,33) argues stimulation through a project approach is as an effort so that children have a network of understanding between attention, and applications derived from explicit they do. Involvement in activities deep experience in the learning process builds knowledge that facilitates the connection between knowledge and verbal abilities.

The project approach began with activities related to the children's business to read the procedures for activities, read books related to things they want to know or make pamphlets and draw stories related to the topic.

In this research, by adopting flood disaster-based approach, the development of this immersed model on a number of activities rests carried out that are able to converge on one result of internalization in a child referred to as "The Volunteer". The Volunteer is not just a child who knows the natural surroundings with all its characteristics and uniqueness, it is expected that the child has the right attitude, knowledge and action skills when they meet flood disaster. Although, it must be realized that this immersed model may only be realized in some children. Logue and Soo (2007), Hooks and Duarte (2005), Rosenow (2008), and Owen (2007) in their researches both in the development of learning activities for childhood early and in prospective early childhood education (Pendidikan Anak Usia

Dini/herein after referred to as PAUD) teachers, prove that project approach is able to improve children's understanding awareness of differences, and to reconstruct concepts about mathematics and the environment to be applied everyday life.

#### **METHOD**

The type of research used in this research was action research. This approach to action research used Participatory Action Research (PAR) by adopting Kemmis and Taggart's Cycle Models. According to Kemmis and Taggart (2010; 464) the actions taken by the researcher as a participant in this activity were based on the idea that the researcher has really understood the structure and functions of the actions.

The subjects in this research were PAUD teachers both from TK, RA, and POS PAUD as 36 people from various sub-districts in Situbondo Regency. These teachers are joined as the PG PAUD Alumni Association of Universitas Muhammadiyah Jember.

The standard of success in this research used descriptive

statistics by comparing the percentage of participants' success through the pre-test and post-test scores. The action research cycle would stop when 90% of participants have the correct answer score above 65 at the time of the post test.

In this research, the level of validity determined was by a) content validity by comparing the contents of the instrument with the subject matter that has been taught that is adapted to the kindergarten curriculum on aspects of language development, b) validity construct to prove the measurement results obtained from test items that correlate with the theoretical construct underlying the preparation of the test. Cronbach and Meehl (Djaali and Pudji, 2008) say there are 3 steps to do construct validity: 1) articulating a series of theoretical concepts and their interrelationships; developing ways to measure hypothetical constructs that theorized; 3) empirically examining the hypothetical relationship between the construct and its visible manifestations; c) triangulation carried out based on the validity used, extension of data collection in the field, and consultation with experts.

Data will be analyzed descriptively with qualitative approach supported by quantitative data from the results of simple statistics show the initial to differences before the action and after action. Qualitative analysis was presented in a narrative form to describe comprehensively the facts, events, which occur together to form complete pattern of a linear coherent phenomenon to support the accuracy of the analysis.

#### **RESULTS AND DISCUSSION**

This activity introducing disaster content is not easy because the disaster can be seen as an event that brings traumatic experience not only to early childhood, even in adults. Therefore, the introduction of disasters for early childhood needs to be designed in the form of fun learning, but it has contextual facts with children's experience.

In the immersed model, a child is expected to be able to reflect both the input and output of the activities that he/she has done explicitly and/or implicitly have connections. This immersed model is

based on a number of activities carried out to be conical in one result of internalization in a child referred to as "The Volunteer", what is called the volunteer is not just a child who knows the natural surroundings with all its characteristics and uniqueness, it is expected that the child has an attitude, knowledge and appropriate action skills in when fllash floods disaster occurs. Disaster content is developed in the three main thematic ones that already exist, but for the need to develop the immersed model, T" the theme entitled am the Volunteer of disaster". This is because in that area it must be realized that it is a disaster-prone area. Basically, the content about disaster can be integrated in each theme. The basic competencies that are expected from immersed content are that the child has an alert attitude, strong knowledge and skills in the period of mitigation and prevention, during emergency response and during post-disaster.

The development of a list of planned anticipation activities to deepen the study is compiled with a web model by integrating conceptual ideas in the sub-themes under study.

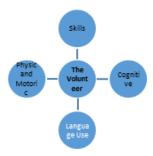
This sub-theme is a new sub-theme resulting from the development of sub-themes that already exist in the theme of natural and weather symptoms. As with the steps in the project approach, this second phase is the phase when the teacher and students plan the implementation of To facilitate activity. activities need to be done, the teacher develops the web model that is used to plan the above activities. example of activities in the subtheme of flash floods disaster is to invite Regional Board for Disaster Management (Badan Penanggulangan Bencana Daerah/BPBD) team and members of the TNI/POLRI who usually act as volunteer coordinators.

this phase, the teacher begins to inform parents of activities to be carried out. Parental involvement is not only when activities are carried out. Parents can involved from the start to be beginning, for example by suggesting experts who can sustain the activity.

In this third phase, the culmination occurs when students are able to use their new knowledge

other playing activities or on activities. The culmination point in this topic can be the whole form of skills that are built together with the attitude of the conceptual basis that the child gets from the learning experience both when they make a visit for investigation or experience directly when they meet people who are experts and able to provide answers to questions that the children want to know.

The culmination activity children the opportunity to gives show the fusion between multidisciplinary integration in the development of basic abilities and these attitudes and skills that arise in the "immersed" process of children with activities the culmination at point. The immersed model of "The Volunteer" can be illustrated.



It is important to have a project approach as a bridge to immerse a child having adequate attitudes, knowledge, and skills that can be linked to existing major

themes. The researcher used a large frame of annual themes used by each education unit. Thus, it is easier to direct participants' understanding to the meaning of immersed.

In the training, the theme framework was education on disaster anticipation, flash floods disaster was chosen phenomenon Situbondo District which is known by adults and children. To bridge the teacher's knowledge about education in anticipating flash floods disaster, the researcher previously held a pre-test to measure teachers' knowledge about disaster risk reduction.

In the second training, most teachers had basic knowledge about the anticipation of the flash floods Some participants added disaster. comments to each other that all this time they have been teaching about floods only as a water hazard or flooding occurs due to garbage that clogs the flow of water in the waterways and rivers. Or some other participants explained that floods are caused by deforested forests. Yet, they did not understand that there are stages anticipating disasters. especially flash floods. They were used to face flooding, but they were less aware that flash floods occuring almost every year in their area has the potential for loss and loss of life.

**Participants** also knowledge about what a project approach is and how to design simple, integrative projects in daily but holistic activities (covering every child's development). At least, they understand the first step of how to immerse a child in a container that attitudes, knowledge, contains skills to anticipate flash flood disaster. By using the basis of the material that has been given previously, participants could develop phases in the project integrate the approach and in immersed model approach, that is, participants were divided into three major groups to develop each of the basic competences in the anticipation model of flash floods disaster. Teachers can design integrated activities for children with a variety of strategies that provide opportunities for them to do themselves and provide opportunities for teachers to develop creativity and innovation that is fun for students.

When the second training would end, a post test was held with the same material as the pre test. The results of the post test revealed that all participants received scores above the graduation standard of 65.

Based on the standard of success as a criterion of whether the cycle would be recommended or the cycle would be stopped, therefore the classroom action research stopped in only 1 (one) criterion cycle. The for success applied was 90% of participants obtained > 65.

## **DISCUSSION**

With the immersed model, the learning plan is not just prepared to know each aspect to be achieved. The project approach helps children connect and associate shared knowledge, attitudes, and skills. Through the activities designed and prepared by teachers to improve children's skills, children will be able to build new knowledge.

The project approach can be designed with a variety of strategies that aim for children to get as much opportunity as possible to develop attitudes, knowledge, and skills.

These activities can be designed for individuals, small groups, or large groups.

The difference with the learning design which is not implementing the project approach, the activity tends to be developed by the teacher in the context of If independent activities. it is designed to have connections with other learning, then the connectivity is only in the daily schedule.

The immersed model with the project approach provides guidance for teachers to develop and design learning activities within the framework of a broader mindset. Immersed is based on the existence of a connection of basic skills that is expected to be achieved by children that the children will get a complete picture of attitudes, knowledge, and skills that can be developed into new knowledge or at least having skills to act in accordance with the real conditions experienced. For example, within the framework of the theme of The Volunteer, it is expected that the child will bring up an attitude of being alert, discipline, responsibility, and independence both in the predisaster phase, during a disaster, and post-flash flood disaster. For example, to develop basic skills in Mathematics and Science with Social Emotional, there is an indicator of self-confidence with verbal skills, information namely that children can retell natural symptoms that have the potential to cause flash floods. After obtaining content of concept, attitudes, and skills that are expected to emerge from the project activities, the teacher compiles a list of questions in anticipation of the inability of the child to know what he wants to learn more deeply. The group was then divided into three by developing 3 (three) basic competences, namely basic competence of pre-disaster or mitigation and prevention, basic competence of emergency response and basic competence of disaster. Mitigation and prevention groups produced the intersection of the concept of verbal information skills with knowledge of the of The symptoms flash floods. emergency response group produced a crossing of knowledge about early warning with follow-up skills during evacuation. Post-disaster groups

produced their own health and safety guarding attitudes with knowledge of things that must and must not be done when the flood has not subsided.

In this training, the theme framework was education on disaster anticipation. Flash floods disaster was chosen as a phenomenon in Situbondo Regency which is well known by adults and children. Previously, the researcher conducted pre-test to measure teachers' knowledge about disaster risk reduction.

In the second training, most teachers had basic knowledge about anticipating flash floods disaster. They were used to face flooding, but they were less aware that flash floods that occur almost every year in their area have the potential for loss and loss of life.

Participants had knowledge of the project approach and how to design simple, integrative projects in daily but holistic activities (covering every child's development). At least, they have understood the first step of how to immerse a child in a place that contains attitudes, knowledge, and skills to anticipate flash flood

disaster. Participants were divided into three major groups to develop each of the basic competences in the model of anticipating flash flood disaster. Difficulties experienced by participants have been minimized by the existence of a teacher manual. The questions that lead to the immersed model relate to the big themes that the teacher can design.

This attitude is formed because the basic knowledge associated with attitude. Knowledge about preserving the environment, knowledge of symptoms that have potential flash floods and knowledge of early warning will stimulate an attitude of alertness and responsibility. Knowledge of evacuation procedures and preparing needs in emergency bags prior to a disaster will build a disciplined and independent attitude. Overall, attitude and knowledge will bring up children's action skills. This training is expected to be able to provide a model for designing learning objectives in PAUD according to the characteristics of the environment and students, both in terms of development, culture, and creativity of children.

With the immersed model, the learning plan is not just prepared to know each aspect to be achieved. The immersed model provides teachers with knowledge to develop a holistic framework together.

#### CONCLUSIONS

There are several conclusions that can be drawn from this class action research:

- 1. The immersed model provides a new form of development model of learning activities in PAUD that gives teachers the opportunity to develop creativity and innovation that is fun for their students.
- The project approach helps the children to fully understand the attitudes, concepts/ knowledge, and skills needed by the children.
- 3. The project approach provides an opportunity for teachers to design integrated activities for children with a variety of strategies that give children the opportunity to do it themselves.

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