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## Smart House (Rumah Pintar) As Non-Formal Education Implemented in Pamesi Village

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### ABSTRACT

Pamesi Village is one of the villages in Bengkalis Regency, which is one of the regencies in Bengkalis that consists of several sub-districts. This village is one of the villages where lecturers and students from STAI Hubbulwathan Duri Riau perform community service. The Smart House (Rumah Pintar) program is one of the service programs implemented in this village in an effort to address the issue of education for school-age children in this village, which still lacks educational facilities, particularly for Non-formal education. As a result, this program was implemented in this village through a variety of methods, including the Community Based Research (CBR) and R&D models, as well as outreach and mentoring to school-age children in this village. School-age children in Pamesi Village now have the opportunity to receive Non formal education outside of formal school hours, as well as participate in more positive activities in their spare time. Benefits of having a Smart house to increase interest in English and Arabic and reading also, young people and society, making the library a source of information and knowledge, educating and increasing the ability of the community evenly through library services and optimizing environmental resources in an efficient and effective manner in line with the development of science and technology.

## 1. Introduction

In the implementation of the tri darma of higher education, every lecturer is required to do various activities outside the campus that benefit the environment and the community. Community service is one of the activities of the tri darma of higher education. Community service is an activity that aims to assist specific communities in a variety of ways. In general, this program is designed to make a genuine contribution to the Indonesian nation, particularly in the development of the welfare and progress of the Indonesian nation in general. Several lecturers can work together to carry out this community service program by involving students. One of the goals of this community service is to empower the community in the area that is used as a place of dedication by lecturers and students. Pamesi village is one of the villages in the sub-district of Bathin Solapan, Bengkalis Regency, Riau Province that was used as one of the fostered villages of the community service program by lecturers and students of STAI Hubbulwathan Duri.

Based on STAI Hubbulwathan Duri community service activities by the lecturers and students, the program concerning Education-Based Community Empowerment, we have implemented a program that has become a Priority Scale, namely Non-Formal Education. This Non-Formal Education program's implementation aims to improve the learning abilities of children in Pamesi village. There is only one public elementary school, one private MI, one private MTs, and one private vocational school in this Pamesi village. According to the Pamesi village government, the school age in this village is quite high, but educational facilities are only available for formal education, which is only available from morning to noon, so that from noon to evening, the children in this village have no other activities other than playing and spending time with other gadgets and games. Based on this information, we conducted community service activities in this Pamesi village by hosting a smart house to provide non-formal education.

Smart house (Rumah Pintar) is a place for community empowerment through non-formal education programs in the arts, skills, entrepreneurship. Implementation of non-formal education programs through various fields that provides distinct benefits to society. Community Smart House which consists of 2 vocabularies, namely smart house, and community, which is from the word house smart means a place to receive and give lessons and society as the user. Because most of the participants in this Smart house program are lower middle class society, the use of the word "school" is replaced with the word "smart house" which is more friendly and flexible for middle class people down. This Community Smart House was established based on a program that was formed from Center for Community Learning Activities (PKBM) formed by the whole community circles and Center for Community Learning Activities.

Nonformal education as a community empowerment is a way to explore a community group learning process and practice systematically to improve competence and performance in their work and prepare themselves for roles and future responsibilities, with the meaning of learning to know, learn to do, learn to live together, and learn to be person simultaneously and continuously as explained by (Syamsi, 2010) in the research with the title *Pendidikan Luar Sekolah Sebagai Pemberdaya Dalam Masyarakat*. Non-formal education any organized educational activity outside the established formal system, either alone or as an essential feature of some wider activity - designed to serve identifiable learning clients and learning goals. Non-formal education includes holistic and supportive education education without age limit (Julianto, 2019). The focus of theoretical studies in this article directing to non-formal education for youth or youth education. Youth education is educational network held to prepare nation's leaders.

In global era, education is something important. Because education is the root of the civilization of a nation. Education has now become a basic need that must be owned by everyone in order to be able to answer life's challenges. To get an education, there are many ways that we can achieve. In the world of education there have been several developments caused by the era of globalization and technology, many schools in today's era are technology-based. However, there are still many areas that have not received adequate education (Asri et al., 2018). Pamesi Village, Bathin Solapan District, Bengkalis Regency, Riau Province is a village that is located quite far from the city center where still limited in the facilities especially for nonformal education. This program has objectives; growth of the interest of children, youth and society in learning in order to make them spent their time in positive activities. This paper describes how lecturers and STAI Hubbulwathan Duri students implemented community service programs in the target villages of Pamesi Village, Bathin Solapan District, Bengkalis Regency, Riau.

## **2. Methods**

Smart House lasted for 45 days, this community service activity was carried out in Pamesi Village, Bathin Solapan District, Bengkalis Regency, Riau. From July 16th to August 30th, 2018. Several programs that have been implemented. The method of implementing the activity program to increase interest in reading will be carried out in collaboration between students and lecturers at STAI Hubbulwathan Duri, village government, Karang Taruna and the community. Community service activities in Pamesi village are carried out in a variety of ways, including:

2.1. Community Based Research (CBR) model. CBR is a research model that prioritizes community needs and combines various community elements in it to be actively involved in research to answer community-specific challenges. CBR is defined as a transformative research model based on the principles of community empowerment, collaboration, and social change, in which communities that care participate as partners and agents of change rather than research subjects. CBR views research as a tool to empower community members as partners in producing knowledge (with the community), academics, civil society organizations, and stakeholders that is carried out to collect information and seek change for important public issues (Hanafi et al., 2015).

2.2. Approaching, socializing, counseling, and assisting as a means of passing on knowledge to the community, particularly among school-age children.

2.3. To create a new product or improve an existing one products in this context refer to classroom learning, libraries or laboratories, or educational models, training learning, guidance, evaluation, management. Models of research and development (R&D) are also used to improve program outcomes. This is accomplished through education and assistance in order for them to produce high-quality products. Educational Research and Development (R & D) is a process used to develop and validate educational products. The steps of this process are usually referred to as the R & D cycle, which consists of studying research findings pertinent to the product to be developed, developing the products based on these findings, field testing it in the setting where it will be used eventually, and revising it to correct the deficiencies found in the field-testing stage. In more rigorous programs of R & D, this cycle is repeated until the field-test data indicate that the product meets its behaviorally defined objectives (Borg and Gall, 1983).

## **3. Results and Discussions**

### **3.1. Smart House**

Smart House (Rumah Pintar) is one of the Initiated Smart Indonesia Programs by Mrs. Hj. Ani Bambang Yudhoyono with SIKIB. Mr. Susilo Bambang Yudhoyono while serving as President of the Republic of Indonesia gave directions to SIKIB (United Indonesia Cabinet Wives Solidarity) (Komar, 2017). According to the findings of Komar and Yunus' research, a smart house is a community

empowerment suggestion that accommodates the activities of children, adolescents, and women. One of which is SIKIB is expected to assist the government in accelerating program achievement the world, namely MDG'S in 2015. SIKIB in this case has a leading role change (lead the change) or can be said as an agent of change (agent of change). SIKIB carries the Program towards Prosperous Indonesia which consists of: from the Indonesia Cares Program, the Smart Indonesia Program, the Indonesia Program Green, Healthy Indonesia Program and Creative Indonesia Program. Smart House is a community empowerment center that works to raise the standard of living in order to create a prosperous society (Nuh, 2012). Smart House as a means of community empowerment that accommodates a variety of activities ranging from early childhood education to youth, women, and the elderly. Smart houses are expected to help build an intelligent, innovative, creative, self-sufficient, and prosperous society (Fajar, 2013). PLS with an andragogy approach proven effective in increasing student competence in community empowerment for the elderly, as well as learning facilities and community empowerment, as well as PLS with an andragogy approach proven effective in increasing student competence in community empowerment. During this community service activity in Pamesi village, the student post provided by the village government was used as a Smart house where the students stay for 45 days. Based on the survey attending and doing the activities in smart house, the output obtained from this smart house is around 75% of the participants' creativity will be honed, and their enthusiasm in participating in activities is around 80%.

### 3.2. Non-Formal Education

Based on some explanations before, there are some programs that has been made in the program of smart house maximizes Non-Formal Education implementation in Pamesi village. Some programs made to give some knowledge and abilities for the children in the school years age in the village. There are some methods, models, medias and teaching strategies that used in implemented the out-of- school education in smart house. There were six STAI Hubbulwathan students are tasked with providing mentoring, training, and education for these children as part of smart house's Non-Formal Education program. Any organized educational activity held outside of the formal system, either alone or as part of a larger activity, that is intended to provide services to specific student targets in order to achieve learning goals is referred to as education outside of school this is become Non-Formal Education's root causes (Combs, 1973).

There are some programs that has been done in the program of smart house maximizes Non-Formal Education implementation in Pamesi village, it can be seen in the table below:

**Table 1.** Learning Programs

No.	Programs	Output
1	English and Arabic Language	<ol style="list-style-type: none"> <li>1. Children know and able use basic English in spoken and written.</li> <li>2. Children know and able use basic Arabic in spoken and written.</li> </ol>
2	Tahsin, Tahfiz , Iqro' and religion subject	<ol style="list-style-type: none"> <li>1. Children know and able to read basic quran (Iqro' )</li> <li>2. Children know how to read quran correctly</li> <li>3. Children can memorizing quran verses</li> <li>4. Children know and able to do wudhu and praying.</li> </ol>
3	Library Visit	<ol style="list-style-type: none"> <li>1. Children know the function of library</li> <li>2. Children have an interest in reading</li> </ol>

		3. Children have more knowledge from book not only from gadget.
4	Art and Creation	1. Children make some creation from origami paper 2. Children able in painting and coloring
5	Outdoor Class	1. Children know the nature and surrounding environment 2. Children know how to protect and preserve nature in their environment.

### 3.3. Smart House (Rumah Pintar) As Non-Formal Education Implemented in Pamesi Village

In order to maximize the use of Smart houses in the implementation of non-formal education, lecturers and students create structured and scheduled programs, with each program having a schedule and tutors according to the planned program. The Smart house program as Non-Formal Education have been socialized to all villagers in collaboration with the village government, RT, RW, mosque administrators, schools, libraries, and village youth. There 53 school-age children who joint in this smart house program. The schedule in smart house has been arranged for a week, where the children will have their class in the afternoon after finish from their formal school.

**Table 2.** Timeline of Non-Formal Education implementation in smart house Pamesi Village

No.	Programs	Timeline	Tutor
1	English and Arabic Language	Monday - Wednesday : 02-04. pm	Nenri Suci Rahmadani
2	Tahsin, Tahfiz , Iqro' and religion subject	Tuesday-Thursday-Friday: 12-04 pm	Paima, Jumiyanti, Ari Mahyudin
3	Library Visit	Monday-Friday : 04-05 pm	All tutors
4	Art and Creation	Saturday : 02-04 pm	Putri Rahmadani
5	Outdoor Class	Sunday : 06-10 am	All tutors



**Figure 1.** Profile of Smart House in Pamesi Village



**Figure 2.** English Learning Activities



**Figure 3.** Outdoor Activities



**Figure 4.** Childrens' Creation



**Figure 5.** Library Visit

Total of participant Smart House is 53 participants. Education-Based Smart Houses, Programs with Priority Scale namely Smart House, where as long as the program and Library programs were implemented in Pamesi, Pamesi Village participants' interest in learning was very high to take part in Smart House, both from Elementary School (SD) and Junior High School (SMP), especially for English subjects and library visit. Routine activities in library visits are carried out from Monday to Friday and children spend one hour each day in the library. The library visit program has made the village library useful and efficient for children in this village and has also increased interest in reading and visits to the village library.

#### **4. Conclusions**

There are numerous benefits that can be carried out and provided to related parties through community service activities, particularly in the area where the service is located. The usefulness can be seen in a variety of fields, one of which is education, where empowerment in education can increase children's interest in learning, because it is undeniable that the challenges in this digitalization era are increasing and there are numerous negative consequences, particularly with the increasing use of technology, particularly gadgets or smartphones. Many children are addicted to this device, which has a negative impact on their activities, particularly their learning. As a result, in rural areas that are quite far from the city center and still have limited educational facilities, the campus's community service program will be very useful in assisting the village in overcoming educational problems. Smart House (Rumah Pintar) As Non-Formal Education Implemented in Pamesi Village can be an alternative solution program to handle the problem especially in the village or rural areas.

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#### **6. Authors Note**

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