



COMMUNITY EMPOWERMENT THROUGH TRAINING AND ASSISTANCE OF LOCAL MATERIAL APPLIED TECHNOLOGY AND ENTREPRENEURSHIP

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Abstract. **Background :** The problem of poverty is a complex matter involving various aspects such as the fulfillment of food, health, education, employment and so on. Data from the Central Statistics Agency in 2014 shows that poverty rates are still high in Indonesia, which is around 13.8% in rural areas and 8.2% in urban areas. Poverty has a relationship with community welfare and health problems, including problems with the nutritional status of children under five. According to data from the Basic Health Research (Riskesdas) of the Ministry of Health of the Republic of Indonesia in 2013, 19.6% of children under five in Indonesia suffer from malnutrition and malnutrition. One of the long-term indicators for chronic malnutrition in children is childhood stunting. In 2013 in Indonesia as many as 37.3% of children under five, which is about 9 million children under five are short and very short. The efforts made according to this approach are to encourage an entrepreneurial culture, and encourage the emergence of small businesses, as well as encourage individual participation so that they can optimally utilize the entrepreneurial culture and the created business climate. One of the entrepreneurship is the production of black sticky rice tape. The biggest producer of black sticky rice tape in West Java Province is West Bandung Regency. Black sticky rice tape is a food that contains anthocyanins and has antioxidant activity and fiber.

Methods : Community service is carried out in West Bandung Regency, Cililin sub-district, Kidan Pananjung Village because it is the location of a large black glutinous tape producer center in West Java and in this location research has been carried out related to the consumption of black sticky rice tape in the prevention of non-communicable diseases, namely metabolic syndrome and One of the recommendations of the research results is community development. Based on the above, it is necessary to do community service, namely: Community Empowerment through Training and Assistance in Applied Technology of Local Materials and Entrepreneurship to Cadres in Cililin District, West Bandung Regency.

Results : The data from the pretest-posttest results of the effect of technology training on processed glutinous rice products in an effort to increase entrepreneurial abilities in Kidang Pananjung Village, Cililin District, West Bandung.

Conclusion : Community Empowerment through Training and Assistance in Applied Technology of Local Materials and Entrepreneurship to Cadres in Cililin District is necessary to apply.

Key words: Poverty, Metabolic Syndrome and Community Empowerment

BACKGROUND

The problem of poverty is a complex matter involving various aspects such as the fulfillment of food, health, education, employment and so on. Data from the Central Statistics Agency in 2014 shows that poverty rates are still high in Indonesia, which is around 13.8% in rural areas and 8.2% in urban areas. In West Java Province the total poverty rate is around 4,238,960 or around 9.18% of the total population in September 2014. Based on WHO data in 2010 as many as 55 million pre-school children are malnourished, with 40 million of them experiencing moderate malnutrition. occurs acutely. According to data from the Basic Health Research (Riskesdas) of the Ministry of Health of the Republic of Indonesia in 2013, 19.6% of children under five in Indonesia suffer from malnutrition and malnutrition. One of the long-term indicators of chronic malnutrition in children is childhood stunting, or short stature in children that is not caused by endocrinological or syndromic disorders. In 2013 in Indonesia as many as 37.3% of children under five, which is about 9 million children under five are short and very short. (WHO, 2012; Riskesdas, 2013; Blössner M, Onis Md, 2005).

This research is planned to take an individual approach (individualist or enterprise approach) and a community approach (communitarian approach). Efforts made according to this approach are to encourage an entrepreneurial culture, encourage the emergence of small businesses, and encourage individual participation so that they can optimally utilize the entrepreneurial culture and business climate created as well as increase cooperation between communities in achieving the goal of improving mutual welfare.

In previous research conducted by Fauziah Nur, 2015, showed that in West Bandung Regency shows the least consumption of black sticky rice tape >11.5 grams in a day can prevent events metabolic syndrome, giving 200 grams of black sticky rice tape daily in West Java and West Sumatra, was proven to have a significant effect on improving the components of the metabolic syndrome and there was a significant improvement in other profiles, namely total cholesterol and LDL cholesterol levels as well as a decrease in circumference. waist ($p < 0.001$) (Fauziyah N et al., Syarif O, Aminah M, 2016). b a 2017 study

showed that giving steamed black sticky rice brownies was proven to have a significant effect on reducing waist circumference in abdominal obese patients ($p < 0.001$) (Aminah M, Hastuti W, M Par'i H., 2017) and the provision of Snack Bars. Black sticky rice tape was proven to have a significant effect on improving lipid profiles in patients with dyslipidemia ($p < 0.001$) (Fauziyah N et al., Syarif O, there is a significant difference in nutritional knowledge between before and after Training on Making Black Glutinous Tape for Toddler Mothers in Pasirkaliki Village, North Cimahi District with a value of $p < 0.001$ ($p < 0.05$) (Fauziyah N et al., Aminah M, 2017). Previous community service results show that on average changes after training on Making Black Glutinous Tape for Toddler Mothers in Pasirkaliki Village, North Cimahi District is 24.16%, with a standard deviation of 6.20%, median is 25.00%, the lowest score is 16.67% and the highest score is 33.33%. The results of statistical tests using the Wilcoxon Sign Test test at a 95% confidence level indicate that there is a significant difference in nutritional knowledge between before and after Training on Making Black Glutinous Tape for Toddler Mothers in Pasirkaliki Village, North Cimahi District with a value of $p < 0.001$ ($p < 0.05$) (Fauziyah N et al., Aminah M, 2017).

Based on the results of research and community service based on science and technology, it is necessary to do community service, namely community empowerment through Education and Training on Processed Product Technology Based on Black Glutinous Tape in an Effort to Increase Income of Black Glutinous Tape Producers in Kidang Pananjung Village, Cililin District, West Bandung Regency.

Community service is carried out in West Bandung Regency, Cililin sub-district, Kidang Pananjung village because it is the location of a large black glutinous tape producer center in West Java and in this location research has been carried out on the effect of black sticky rice consumption on the prevention of non-communicable diseases, namely metabolic syndrome (Fauziyah N et al., 2015) and one of the recommendations from his research is the existence of community empowerment through cross-sectoral efforts between the ministries of health, agriculture, trade and industry to produce quality black sticky rice tape and processed products from black sticky rice tape that are more durable and easy to

market such as preserving black sticky rice tape with pasteurization, making instant black sticky rice tape, black sticky rice tape biscuits, pies, snack bars, crispy bars, brownies, ice cream, muffins based on black sticky rice tape so as to increase the income of black sticky rice producers.

Based on the above, it is necessary to do community service, namely: Community Empowerment through Training and Assistance in Applied Technology of Local Materials and Entrepreneurship to Cadres in Cililin District, West Bandung Regency.

METHODS

The purpose of implementing this community service is to increase knowledge and skills through Community Empowerment through Training and Assistance in Applied Technology of Local Materials and Entrepreneurship to Cadres in Cililin District, West Bandung Regency.

This training will apply various training methods including: theory and practice. The training is based on a participatory learning approach which includes: the use of technology for the manufacture of food products and their processed products, a problem-centered training approach, completeness and performance of a set of skills and knowledge at the same time. The following training activities will be held in 14 activities in a period of 1 semester. Assessment of the success rate is determined from the pretest and posttest scores.

RESULTS AND DISCUSSION

Partner training activities are carried out by a team of lecturers (3 people) assisted by 3 students. This activity contains an explanation of material about sticky rice tape to training on product processing made of black sticky rice tape. The table of activities and materials that have been carried out is as follows.

1. First activity

Material	Material Explanation
	1) Food Sanitation
	2) Personal Hygiene
	3) Various types of hazards in food
	4) Food poisoning

Date & Time	July 13, 2019 pk. 08.00-12.00
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2. Second activity

Material	Material Explanation
	1) Packaging and storage technology
	2) Preservation Technology
Date & Time	27 July 2019 pk. 09.00-12.00

3. Third activity

Material	Material Explanation:
	1) Research results on black sticky rice tape and its processed products
	2) Benefits of Consumption of Black Glutinous Tape for health
	3) How to Make Black Glutinous Tape
	4) How to make processed products of black sticky rice tape
	5) Preparation in the manufacture of processed products of black glutinous tape
Date & time	August 10, 2019 pk. 09.00-12.00

4. Fourth activity

Material	Explanation of Material and Practice of Processed Glutinous Tape:
	1) The practice of making black glutinous rice tape products
	2) Processed Organoleptic Test based on black glutinous tape
	3) Benefits of Processed Organoleptic Test based on black glutinous tape
	4) Organoleptic Test Practices for processed

	products based on black glutinous tape 5) Evaluation of organoleptic results of processed products based on black sticky rice tape
Date & Time	August 24, 2019 pk. 09.00-12.00

5. Fifth activity

Material	Explanation and practice: 1) Legislation in the Food Sector 2) Guidelines for good processed food production
Date & Time	14 September 2019 pk. 09.00-12.00

6. Sixth activity

Material	Explanation: Recognizing and identifying food packaging for the Food Home Industry (IRTP)
Date & Time	October 12, 2019 pk. 09.00-12.00

7. Seventh activity

Material	Practice: Develop and implement SSOP for Food Home Industry (IRTP)
Date & Time	October 12, 2019 pk. 09.00-12.00

8. Eighth activity

Material	Material Explanation: Designing and implementing good food production methods (CPPB-IRT) in the Home Food Industry (IRTP)
Date & Time	October 26, 2019 pk. 08.00-12.00

On Partner II

1. First activity

Material	Material Explanation: 1. Food Sanitation
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	2. Personal Hygiene 3. Various types of hazards in food 4. Food poisoning
Date & Time	July 13, 2019 pk. 08.00-12.00

2. Second activity

Material	Material Explanation: 1. Packaging and storage technology 2. Preservation Technology
Date & Time	27 July 2019 pk. 09.00-12.00

3. Third activity

Material	Material Explanation: 1. Research results on black sticky rice tape and its processed products 2. Benefits of Consumption of Black Glutinous Tape for health 3. How to Make Black Glutinous Tape 4. How to make processed products of black glutinous tape 5. Preparation in the manufacture of processed products of black glutinous tape
Date & Time	August 10, 2019 pk. 09.00-12.00

4. Fourth activity

Material	Explanation of Material and Practice of Processed Glutinous Tape: 1. The practice of making black glutinous rice tape products 2. Processed Organoleptic Test based on black glutinous tape 3. Benefits of Processed Organoleptic Test based on black glutinous tape 4. Organoleptic Test Practices for processed products
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	based on black glutinous tape
	5. Evaluation of organoleptic results of processed products based on black sticky rice tape
Date & Time	August 24, 2019 pk. 09.00-12.00

5. Fifth activity

Material	Explanation and practice: 1. Legislation in the Food Sector 2. Guidelines for good processed food production
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Material	Explanation: Recognizing and identifying food packaging for the Food Home Industry (IRTP)
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8. Eighth activity

Material	Material Explanation: Designing and implementing good food production methods (CPPB-IRT) in the Home Food Industry (IRTP)
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The data from the pretest-posttest results of the effect of technology training on processed glutinous rice products in an effort to

increase entrepreneurial abilities in Kidang Pananjung Village, Cililin District, West Bandung Regency can be seen in the following table:

No	Name	Grades Before Training	Value After After
1	Grandma	60	90
2	Nani	20	60
3	Maryani	60	90
4	Rosih	60	90
5	Hasanah	60	90
6	Mirawati	40	80
7	Julia	80	80
8	Nina	50	100
9	Oon	20	30
10	Aida	40	50
11	Oneng	50	60
12	Ai Esi	10	60
	Onih	60	70
14	Marti	70	70
15	Ilis	40	60
16	Erni	70	80
17	Iis	60	90
18	Ai Susanti	60	70
19	Ai Tati	80	100
20	Onih	70	80
21	Yeni	50	70
22	Imas	80	90

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		Snack Bar	Brownies	Crispy Tape
		N	N	N
Flavor	Do not like	2		
	Kinda Like	5	4	
	Like	14	17	21
	Really like			
Color	Do not like			
	Kinda Like	5	2	5
	Like	16	19	16

	Really like			
Scent	Do not like			
	Kinda Like	2		8.
	Like	19	21	21
	Really like			
Texture	Do not like			
	Kinda Like	13		12
	Like	8	21	9
	Really like			9.

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