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EXPLORING THE FACTORS AND LEVELS OF STUDENTSâ™ AUTONOMY IN LANGUAGE LEARNING

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CALCULUS TEACHERâ™S COMPETENCIES AS CORRELATES OF STUDENTSâ™ LEARNING EXPERIENCES

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QUALITY OF HUMAN BEINGS



Paulus Wahana





MORAL EDUCATION TO EMPOWER CONSCIENCE, MIND AND VOLITION TO IMPROVE THE







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Sanata Dharma University, Yogyakarta, Indonesia

DEVELOPMENT OF CHARACTER ASSESSMENT INSTRUMENTS IN SERVICE-LEARNING AT BIOLOGY EDUCATION DEPARTMENT SANATA DHARMA UNIVERSITY

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Abstract

Service-learning is one of the learning methods that combine learning in the classroom with service activities to the community. In service-learning, students are invited to apply the lecture material in solving the problems in the community directly. In the process, many student characters will be trained and developed. This research focuses on developing character assessment instruments that develop after the implementation of service-learning activities in Biology Education Program, Sanata Dharma University, Yogyakarta. The purpose of this research is to develop a character assessment instrument in the form of questionnaires for students, especially in Biology Education at Sanata Dharma University. Questionnaires developed through the stages of the development of the instrument, including determining the purpose of the preparation of the instrument, find the relevant theory, compile instrument indicators, compile instrument, content validation, and revisions based on input validator. Instrument validation is done through content validation with expert judgment. Based on the result of content validation by expert judgment, Aiken index is obtained at 0.85 with high validation category. Based on these results, the character assessment questionnaire developed can be implemented in the learning to assess the character development of students after implementing service-learning.

Keywords: service-learning, assessment instrument, character

Introduction

Currently, the Indonesian government is paying particular attention to the development of character that is integrated through education from early childhood to university levels. The development of the character of this student felt as a very important and urgent thing to do given the declining morale and character of the younger generation. The decline in the character of this young generation can be seen in many ways. In terms of association, there is a tendency of increasingly rampant juvenile delinquency, such as acts of extortion, bullyingin schools, a brawl between students, drug trafficking, free sex to lead to abortion,

and so forth. The proliferation of bribery and corruption in various fields, let alone carried out by the stakeholders who belong to the literate, also indicates the need for the application of character education in schools and communities. The world of education is also inseparable from many cases that show the decline of characters, such as cheating, search for key answers before the National Exam, the development of instant culture, and even plagiarism that occurs in the academic circles (Samani & Hariyanto, 2013).

Sanata Dharma University (SDU) as a Jesuit University in Indonesia is also very concerned about developing the character of the young generation. This is as stated in his vision "Being a superior digger of truth and humanist for the realization of an increasingly dignified society". With its "smart and humanist" motive, USD has 3 major missions, one of which is "Developing a holistic education system that is a blend of academic excellence and human values through a personalist, dialogical, pluralistic, and transformative approach." Development of students, SDU prioritizes the 3C development, namely Competence, Conscience, and Compassion. In a sense, SDU graduates are expected to not only have good competence but also have a high conscience and compassion. In line with the vision and mission of the SDU above, Biology Education Department is expecting its graduates to be a generation that has a good character as stated in its vision, which is "Being a study program that produces a tough Biologist of the nation's intellectual always be humanist by prioritizing the dialogical approach in education and management nature sustainably ". From the vision, it is clear that the Biology Education Department always strives to develop the character of the student, either through the learning process or from various activities conducted by students outside the lecture activities.

In the learning process, Biology Education Department strives to develop the character of students through the application of various learning methods such as cooperative learning, problem-based learning, project-based learning, inquiry, service-learning, and several other innovative methods. One of the methods developed is service-learning. Service-learning is a learning method that combines learning theory with service activities to the community (Warren, 2012). Learning with service-learning methods allows students to learn directly from the communities they serve. Learning derived from the students comes from the context of society related to the problems they face. In this case, students engagein activities devoted to human and community needs (Jacoby, 2015). Thus, students can learn to apply the theories that have been obtained in class to the community directly.

Service-learning in Biology Education Department has been developed since 2010 in Nutrition and Health Sciences courses. In its implementation, service-learning has undergone many developments, ranging from student involvement in Pos Pelayanan Terpadu (Posyandu) activities until now has developed with the involvement of students in providing counseling to the community related to nutrition and health issues. From these activities, students get many benefits such as improving their understanding of lecture materials to the development of student character (Handoyo, 2014). Characters that arise during service-learning activities include creative character, responsibility, hard

work, communicative and social care. In another study, it was stated that service-learning has other benefits such as improving student achievement (Warren, 2012), contributing to student's affective learning, such as self-confidence, social responsibility, and self-esteem, developing tolerant behavior toward cultural differences (Kezar & Rhoads, 2001). Service-learning is seen as an educational approach that allows students to think, value, care, or does something and prepares to face future challenges (Karmansyah, Muljadi, & Saputro, 2013).

Based on Mark F. Toncar's research, *et.al.* (2006) has developed a scale to know the benefits of service-learning. The scale for measuring student's perceptions of the service-learning experience is called the SELEB scale (Service-learning Benefit). The scale consists of 20 variables that are grouped into 4 factors, namely (1) practical ability, (2) interpersonal skills, (3) citizenship, and (4) personal responsibility. Factors 1 and 2 are skills-related benefits, while the 3rd and 4th factors show the benefits of a personal nature.

The problem faced in the assessment of character in learning at Biology Education Department of SDU is the unavailability of the instrument to assess the development of student character after implementing service-learning. This assessment instrument is very necessary to be developed to facilitate the teacher in measuring the benefits of the implementation of service-learning for the development of student character. After the teacher knows that service-learning can develop student's character, it is expected that the lecturer can continue to develop the service-learning in their teaching experience. This study aims to develop a character assessment instrument in Service-learning at Biology Education Department.

Method

Character assessment instrument in service-learning, developed by stages in accordance with the stages of instrument development by Retnawati (2016), which determines the purpose of the preparation of the instrument, find relevant theories, prepare instrument grain indicators, arrange instrument items, content validation, and revisions based on validator's input.

Findings and Discussion

Character assessment instrument in service-learning developed in this research through the stages of preparation of instruments as described below.

Arrange Instrument Grain Indicators

The character development instrument in this study measures 8 characters that can develop during the implementation of service-learning. These eight characters can develop as long as the students follow each stage of service-learning, namely investigation, planning and preparation, action, reflection, and demonstration. The characters that appear can be seen in table 1 below.

Table 1. Character Value Emerging during Service-learning

	Tweld It eliminated that Eliming working self the learning			
No.	Stage	Character Value		
1	Investigation	Curiosity, communicative, social care,		
		honest		
2	Planning and Prepare	Creative, hard work, communicative,		
		responsibility		
3	Action	Hard work, discipline, responsibility,		
		communicative, social care		
4	Reflection	Honest		
5	Demonstration	Honest, communicative		

Next step was to determine the indicators. Indicators are determined based on relevant theoretical studies. Indicators in this research include 8 aspects of the character that is curiosity, hard work, responsibility, discipline, social care, communicative, creative and honest. Indicators of each character aspect can be seen in table 2.

Table 2. Character Components and Indicators in Service-learning

No.	Character Value	Indicators	
1	Curiosity	Seek information from various sourcesHave the initiative	
2	Hard Work	 Not easy to despair in doing the task 	
3	Responsibility	complete the task well	
4	Discipline	 Collect reports/tasks result in time Conducting activities in accordance with the schedule 	
5	Social Care	 Have a sense of empathy towards community problems Able to provide solutions to the problems that exist in the community 	
6	Creative	Able to provide innovative ideas in overcoming the problems that exist in the community	
7	Communicative	 Speak politely Be able to communicate ideas to friends and communities 	
8	Honest	 Prepare activity reports in accordance with reality Report data according to community conditions 	

Organizing Instruments Items

Instrument preparation is done by looking at indicators that have been arranged in the grid. Instrument items can be seen in table 3 below. Items are arranged in the form of a Lickert-scale questionnaire with a choice of "Strongly Agree (SA)", "Agree (A)", "Disagree (DA)" and "Strongly Disagree (SD)" responses. The 13 indicators are then translated into 21 statements divided into 14 positive statements and 7 negative statements as shown in table 3 below.

Table 3. Character Assessment Items in Service-learning

	Table 3. Character Assessment Items in Service-learning				
No	Statements		Response		
1	T (1 1 1 1 C (1 1 1 1 1 1 1 1 1 1 1 1 1	SD	DA	A	SA
1	I am actively seeking information about the problems				
	in the community from various sources				
2	The existence of obstacles and difficulties in the				
	implementation of activities, do not discourage/lower				
	my spirit in carrying out service-learning activities				
3	Despite my many lectures, I still carry out service-				
	learning activities seriously				
4	I am actively involved in giving ideas about solutions				
~	to problems that exist in the community				
5	This service-learning activity stimulates my				
6	imagination to help solve the problems in society				
6	Due to the enormous tasks, my activity report becomes delayed				
7	When I know the problems that exist in the				
,	community, I want to help them with the knowledge				
	and skills I have				
8	I am actively involved in solving problems in the				
	community				
9	This service-learning challenges my creativity to				
	design innovative programs according to the				
	problems encountered in society				
10	I prefer to listen to friends opinions				
11	I always collect reports/assignments on time				
12	I can convey ideas to the people in a language				
	appropriate to the condition/context of the				
13	community I only rely on information from lecturers related to				
13	the problems occurs in the community				
14	reports that I compile in accordance with conditions				
	in the field				
15	I obey the schedule of activities that have been				
	agreed with the group				
16	I am ashamed to express my opinion				
17	In order for my report to get good grades, I include				
	many activities that I do not do				
18	I carry out service-learning activities with as				
10	necessary only, since i also have many another task				
19	I try to communicate with people in polite language				
20	I was careless in preparing service-learning programs				
21	I do all the activities I report in the activity report				

Content Validation

Content validation is done by expert judgment. The expert sees the appropriateness of the indicator with the purpose of developing the instrument, the conformity of the indicator with the theory, looking at the suitability of the instrument with the indicator of the item, looking at the truth of the concept of the

item, looking at the truth of the content. In this research validation of content done by asking advice from education experts, namely Prof. Dr. Paul Suparno, SJ., M.S.T. and lecturer in Biology Education Program, Drs A. Tri Priantoro, M.For.Sc. The expert gives an assessment of the relevance of the statement item with the indicator being prepared. Score is set with terms, score 1 = irrelevant, 2 = less relevant, 3 = relevant enough, 4 = relevant and 5 = highly relevant. Assessment of experts then calculated the index of expert agreement or validator agreement by using Aiken index, by the formula below.

$$V = \frac{\sum s}{n(c-1)}$$

Information:

V = index of the rater agreement on the validity of the item

s = score per rater minus the lowest score in the scoring category (r - lo)

r = score set by each rater

lo = lowest score in the scoring category

n = number of rater

c = number of categories that can be selected rater

Aiken index calculation results are then used to determine the validity of the instrument, with the provisions as shown in table 4 below.

Table 4. Description of Aiken Index Calculation Result

Index Value of Aiken	Description
< 0,4	Low Validity
0,4-0,8	Mediocare Validity
	High Validity

Aiken index calculation results each item statement and its description can be seen in table 5.

Table 5. Calculation Result of Aiken Index at each Statement Point

No.	Index Value of Aiken	Description
1	0,875	High validity
2	1	High validity
3	0,875	High validity
4	0,875	High validity
5	0,625	Mediocare validity
6	0,875	High validity
7	1	High validity
8	0,875	High validity
9	0,75	Mediocare validity
10	0,625	Mediocare validity
11	1	High validity
12	1	High validity
13	1	High validity
14	0,875	High validity

15	1	High validity
16	0,75	Mediocare validity
17	0,875	High validity
18	1	High validity
19	0,75	Mediocare validity
20	0,875	High validity
21	1	High validity

The validator also provides some suggestions as summarized in Table 6 below.

Table 6. Input from Validator

Statement	Input from 1st	Input from 2nd	Follow Up Improvements			
Number	Validator	Validator				
1	Good	Less focus	Adding the word "Natural			
			Resource Management"			
3			Adding the word "Natural			
			Resource Management"			
4	Good	Less focus	Adding the word "Natural			
			Resource Management"			
5	Not quite right	Less focus	Made more technical; Adding			
			the word "Natural Resource			
			Management"			
6	Good	Less focus	Adding the word "service-			
_			learning"			
7	Good		Adding the word "Natural			
0		T C	Resource Management"			
8	Good	Less focus	Adding the word "Natural			
0	NT / ' 1		Resource Management"			
9	Not quite right		Made more technical and			
			scalable; Adding the word			
			"Natural Resource			
10	Not quite right	Less complete	Management" Made more technical; Adding			
10	Not quite right	Less complete	the word "Natural Resource			
			Management"			
11	Good		Adding the word "Natural			
11	Good		Resource Management"			
13	Good		Adding the word "Natural			
13	3004		Resource Management"			
14	Good	Less complete	Adding the word "Natural			
		r	Resource Management"			
17	i is changed to I	Less emphasis	Change i to I			
18	i is changed to I	•	Change i to I			
19	Not quite right		Rearrange the sentence			
20	i is changed to I	The choice of	Change i to I, replace the word			
		words "careless"	"careless" with the word "as			
		not appropriate	necessary"			
21	i is changed to I		Change i to I			

Revisions Based on Validator Input

Revisions are made based on the input of the validators, and then the revised results are re-consulted on the validator to obtain valid instruments. Revisions are made by clarifying the context of the problems encountered that are related to the courses that will be used for the implementation of the questionnaire that is in the course of Natural Resource Management and changes some statements as suggested by the expert. The result of the instrument revision can be seen in Table 7 below.

Table 7. Instruments after Revised

No.	Statements Statements	Response			
		SD	DA	A	SA
1	I am actively seeking information on Natural Resource				
	Management issues in the community from various				
	sources				
2	The existence of obstacles and difficulties in the				
	implementation of activities, do not discourage/lower				
2	my spirit in carrying out service-learning activities				
3	Despite my many lecture assignments, I still carry out				
	service-learning activities related to Natural Resource Management seriously				
4	I am actively involved in providing ideas on solutions to				
т	natural resource management problems in the				
	community				
5	I am able to provide creative ideas to solve the problems				
	of Natural Resource Management in the community				
6	Due to the enormous task, my service-learning report				
_	becomes delayed				
7	When I know the issues related to Natural Resource				
	Management in the community, I want to help them with				
8	the knowledge and skills I have I am actively involved in solving Natural Resource				
0	Management problems in the community				
9	I can design an innovative program in line with existing				
	natural resource management issues				
10	In planning the program (solution) to overcome the				
	problems related to Natural Resource Management, I				
	prefer silent				
11	I always collect reports/tasks related to the Natural				
10	Resource Management Course on time				
12	I can convey ideas/ideas to the people in a language appropriate to the condition/context of the community				
13	I only rely on information from lecturers related issues				
13	Natural Resource Management in the target community				
14	Report on Service-Learning activities related to Natural				
	Resource Management which I arranged in accordance				
	with the conditions in the field				
15	I obey the schedule of activities that have been agreed				
	with the group				
16	I am ashamed to express my opinion/question when				

No.	Statements		Response			
		SD	DA	A	SA	
	observation and face to face with the community					
17	In order for my report to get good grades, I include					
	many activities that I do not all do					
18	I carry out service-learning activities with as necessary					
	only, since my other college assignments are also many					
19	I use polite language when communicating with people					
20	I develop service-learning programs as necessary					
21	I did all the activities I reported in the activity report					

In addition to revisions according to expert input, Aiken index calculations are also performed for the instrument as a whole. The results show that the instrument of character assessment in service-learning has Aiken index of 0.85 and is included in the category of high validity. Based on these values, then developed instruments can be implemented in the course to assess the development of student characters after implementing service-learning.

Conclusions

In this research have been compiled the character assessment instrument in Service-learning in the form of a questionnaire. Expert validation results show the value of Aiken index of 0.85 which means that the questionnaire developed has high validity and can be implemented in the course to see the student's response, that is in the aspect of character development after implementing service-learning.

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