LEARNING MODULE IN COOKERY



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Abstract

This study aimed to determine the validity of the learning module in Cookery in the UNTED EVANGELICAL CHURCH SCHOOL SCHOOL. Specifically it sought answers to the following questions. What is the component level of the module with regards to acceptability of learning module in Technology and Livelihood Education in terms of features:usability, consistency, adaptability and aestheitc value? What is the feature level of the module relative to Student's Performance:Practical Test? What is the level of the students performance as to practical test? Do the components of the module has significant effect to the students performance of Grade 8? Do the features of the module has significant effect to the students performance of Grade 8?

The descriptive method of research was used and a teacher made questionnaire was utilized in gathering the data. Fifty Grade 8 students in Technology and Livelihood Education were chosen using the stratified random sampling technique. The data and responses were collected rabulated and interpreted using the appropriate statistical treatments of data. Weighted meand and standard deviation were utilized to deteremine the significant effect of the performance of the students.

The Grade 8 students of UECS got an average mean of 4.12 which implies that it is very evident when it comes to the relativity of the usability of the module. The significant effect of the components of the module on students performance as to practical test 0.2 and .09 found not significant. In terms of usability, consistency, adaptability, and aesthetic value obtained small relationship interpretation respectively foound out not significant.

In terms of objectives of the developed module obtained a grand mean of 4.01 which means very acceptable. Simple and specific, attainable and measurable, time bound and directed to the pupil's learning inputs revealed an interpretation of agree. While the relevant to the learning inputs of the module revealed an interpretation of strongly agree.

The activities of the developed instructional module for the students, obtained a grand mean of 4.17 which means very acceptable. Performs the



expected outcome of the lesson, realistic and practical enhancement for the reallife situation, interactive performances among their groups or peers revealed an interpretation of agree. While the objectives of the lesson and to acquire knowledge and skills revealed an interpretation of strongly agree.

The general findings of the evaluation and validation of the learning module in Cookery in usability, consistency, adaptability, and aesthetic value obtained 0.41, 0.71, 0.60 and 0.80 and p-value of 0.685, 0.479, 0.555 and 0.635 which are found not significant. Significant effect of the components of the module on students performance as to practical test resulted to a t-value of 0.2, 0.8, 0.19 and 0.09 and a t-value of 0.986, 0.934, 0.848 and 0.929. which are found not significant.

Keywords: Acceptability, Activities, Adaptability, Assessment, Contents, Instructional Learning Module in Cookery, Modular Approach, Objectives and Procedure

1. Main text

Introduction

Many teachers felt pressured to finish entire context of a textbook within a year. However, due to the constraints, teachers are unable to do so, and get frustrated and even agonized over their failure. With the continuing search for the right techniques, methods and approaches that could help both teachers and students in achieving the full development of an individual. In the 4 years of teaching in the Private School as a teacher the researcher has seen differencees between the students today and the students few years back. Most of the student today do not have the focus on studying and they lack interest in learning, most especially in the subject in Technology and Livelihood Education. The teacher would like to revise the learning module that can hook the interest of the students.

As indicated by Smith (2017) module does not to be build in the panacea for settling the current training program. A module is not an end in itself but instead a way to accomplish a compelling showing learning movement. It ought to be dealt with basically one sort of training device to utilize inside the setting of teacher-learner relationship. Using modules can be effective in different schools, especially those with inadequate libraries. Learning module can serve as an effective tool in acquiring more knowledge, skills, experience and an effective way in the teaching process.

Background of the Study

A module is a particular kind of learning research which is basically a



self contained, self-sufficient unit of instruction. It is an arrangement of instructional materials and system that contains the fundamental components of guidelines, destination, learning exercises and it's value.

Republic Act 10533, also known as the Enhanced Basic Education Act of 2013 or Government K to 12 Program, gives adherence to the accompanying norms and standards, in developing the Enhanced Basic Education Curriculum (a) the curriculum will be student focused, comprehensive and formatively fitting and (b) the curriculum will be pertinent, responsive and look into based.

Also the law unmistakably expresses the rule II area 10.3 creation and development of locally produced teaching and learning materials. The curriculum shall develop proficiency in Cookery and the enrichment of the subject.

Cookery, as one of the areas of Technology and Livelihood Education, remains to be a vital part of the learning competencies in the K to 12 Basic Education. The knowledge and skills that can be developed in this course can serve as the foundation of entrepreneurial pursuit. It also help them prepare for their future.

Quality education is one of the premier objectives of any instruction framework. Quality Education can be dictated by academic excellence of the learner and nature of the scholarship.

The researcher intents to develop, evaluate and innovate Modules in Cookery for high school students and in her desire to contribute to the development of the new instructional materials to be adapted to the needs of the administration and the students.

Statement of the Problem

1. What is the level of acceptability of the learning module in Technology and Livelihood Education in terms of:

- 1.1 objectives;
- 1.2 contents;
- 1.3 activities; and
- 1.4 assessment?

2. What is the feature level of the module relative to:

- 2.1 usability;
- 2.2 consistency;
- 2.3 adaptability; and
- 2.4 aesthetic values?

3. What is the level of the students performance as to practical test?

4. Do the components of the module has significant effect to the students performance of Grade 8?



5. Do the features of the module has significant effect to the students performance of Grade 8?

Research Methodology

This chapter describes strategies and method used to offer responses to issues from the former examination. This procedures incorporates inquiries about outline, subject to the investigation, populace in examining strategies, explore methodology, look into instruments, and factual test utilized as a part of treatment of information.

The research design employed the descriptive method in gathering and treating the data for the foregoing areas of studies.

According to Johnson and Christensen (2017) a) semi exploratory research outlines are the point at which one is occupied with considering circumstances and end results b) he can control the autonomous variable c) he can't utilize a more grounded trial plan due to down to earth or limitations.

Hence, these types of research designs were used to know the acceptability of the developed instructional module.

With the main focus of this study, the development and evaluation of instruction learning module for cookery for High School the whole population of teachers and students were used thus no sampling technique was utilized. There were 50 Technology and Livelihood Education (TLE) students in High School. Sampling is the method by which a researcher chooses a group of respondents the sample from a larger population and then formulating a universal assertion about the whole matter. The researchers used is purposive sampling, According to Tan (2016) Simple random sampling is the election on random basis of elements from sampling frame, wherein each element has an equal chance or probability of being chose as subject of the study.

The materials and instruments used for gathering data were the questionnaire-checklist, and the documentary analysis techniques, scattered sources. Crossman (2018) define purposive sampling as judgmental, selective or subjective sampling and a form of non-probability sampling on which researchers rely in their study. It requires researchers' prior knowledge on the purpose of the study for them to properly choose eligible participants. Furthermore, this type of sampling is useful when the researcher need to reach a targeted sample quickly

The researchers prepared the instruments used through readings of the questionnaire-checklist of other studies just to obtain some ideas. Finally the researcher was able to do and it was presented to her professor. After the adviser had corrected and approved the questionnaire the researchers will create a Google Forms together with the letter asking permission from the respondents to be part of



the study as well as the Teacher's approval in conducting this study and in the distribution of the questionnaire to the respondents.

This study was conducted at the middle of the school year 2021-2022. After the approval of the title, the researcher made a further study on the research through different information gathered from the books, journals and the internet. Thereafter, the researcher started to formulate a survey questionnaire to be used as an instrument for the study and seek assistance from the expert for it's validation.

After the validation, the researcher asked permission to the adviser and Dean of College of Teacher Education to distribute the questionnaires. Subsequently, after reviewing the questionnaires, the respondents answers went through the process of tabulation, computation and interpretation with the assistance of a statistician.

The responses of the respondents to the questionnaire checklist were carefully tallied, tabulated and organized including those derive from interviews, observation and documentary analysis. The data presented, analyzed and interpreted with the used of weighted mean, frequency counts, percentage and ranking system. The presentation, analysis and interpretation of the data will be based on the weighted mean as shown by the scale ranges as follows(Calderon,2018)

The table of equivalent which is the basis of the interpretation of the data will be :(Tan 2016)

Weight	Scale	Verbal Interpretation
4.50 above	5	Strongly Agree
3.50-4.49	4	Agree
2.50-3.49	3	Moderately Agree
1.50-2.49	2	Disagree
below 1.50	1	Strongly Disagree

Theoretical Framework



This study aimed to give a clear perspective of the study, the variables are presented in the form of a paradigm in terms of objectives, contents, activities, and assessment.

Instructional Module in Technology and Livelihood Education



Figure 1. The Research Paradigm of the Study

Results and Discussion

Table 1. Component Level of the Module in Terms of Objectives

The objectives of the developed module	Mean	SD	Remarks
simple and specific.	3.98	0.89	Agree
attainable and measurable.	4.00	0.74	Agree
time bound.	3.71	0.82	Agree



re th	relevant to the learning inputs of the module.		4.21	0.74	Strongly Agree
dii in	rected to the puts.	pupil's learning	4.15	0.80	Agree
	Gran	nd Mean	4.0	1	Acceptable
	Ului				•
Legend					•
Legend Scale	Range	Remarks	Interpretation		
Legend Scale 5	Range 4.20 – 5.00	Remarks Strongly Agree	Interpretation Extremely Act	ceptable	<u> </u>
Legend Scale 5 4	Range 4.20 – 5.00 3.40 – 4.19	Remarks Strongly Agree Agree	Interpretation Extremely Act Very Accepta	ceptable ble	<u> </u>

Slightly Agree

Disagree

2

1

1.80 – 2.59

1.00 – 1.79

Table 1 illustrates the component level of the module with regards to acceptability of learning module in TLE in terms of objectives.

Slightly Acceptable

Not Acceptable

Among the statements above "The objectives of the developed module relevant to the learning inputs of the module" yielded the highest mean score (M=4.21, SD0.74) and was remarked as Strongly Agree. This is followed by "The objectives of the developed module directed to the pupils learning inputs." with the mean score of (M=3.71, SD =0.82) yet was also remarked as Agree.

The component level of the module with regards to acceptability of the learning module in TLE in terms of objectives attained a mean score of 4.01 and was very acceptable among the respondents.

These further explicate that respondents' agreed on the manifestation of the objectives in the developed module are highly acceptable.

Burn (2013) expressed the objectives ought to have the capacity to achieve after thay have finished the task. Targets the practices, and or exhibitions toward which the students works. In a learning materials, objectives ought to be express impact on the students.

Table 2. Component Level of the Module in Terms of Contents

The lesson included in the module	Mean	SD	Remarks
is parallel to the curriculum.	4.00	0.90	Agree
provides enough information on the topic presented.	4.31	0.83	Strongly Agree
is fit, current and interesting to the learners.	3.96	1.03	Agree



Grand Mean	4.18	3	Acceptable
contributes to obtain the ideas and understanding of the lesson.	4.40	0.76	Strongly Agree
is presented in correct sequence and processes.	4.23	0.83	Strongly Agree

Table 2 indicates that the components of the learning module in terms of lesson was very acceptable as evidences by the grand (M=4.18). This explains further that the respondents agreed on the manifestation of the lesson in the developed module.

The respondents strongly agree that *"the* lesson included in the module are *relevant to the learning inputs of the module"* supported by the highest (M=4.40). However, the respondents agree that module *"*is fit, current and interesting to the learners." which garnered the least (M=3.96, SD=1.03). This implies that the objectives of the developed conform with the criteria as evaluated by the respondents.

Table 3 shows as to what is the components of the learning module in terms of activities was very acceptable as evidences by the grand (M=4.17). This explains further that the respondents agreed on the manifestation of the lesson in the developed module.

The respondents strongly agree that *"the* activities included in the module *are relevant to the learning inputs of the module"* supported by the highest (M=4.52). However, the respondents agree that module needs improvement on *"*interactive performances among groups or peers." which garnered the least (M=3.85, SD=1.03). This implies that the objectives of the developed conform with the criteria as evaluated by the respondents.

The activities of the developed instructional module for the students performs	Mean	SD	Remarks
the expected outcome of the lesson.	4.13	0.73	Agree
realistic and practical enhancement for the real-life situation.	4.13	0.91	Agree
interactive performances among their groups or peers.	3.85	1.03	Agree
objectives of the lesson.	4.21	0.80	Strongly Agree

Table 3. Component Level of the Module in Terms of Activities



Grand Mean	4.	17	Acceptable
to acquire knowledge and skills.	4.52	0.65	Strongly Agree

As indicated by the popular announcement of Frobel (2012) "all learning comes through self-movement." This articulation has prompted rule that has overwhelming effect on the development of present day school. The activities/exercises included in the instructional learning module is a test if the students really understand the procedure.

According to Kizklik (2013) stated that assessment is perhaps the most complex and least understood of the terms. Inherent in the idea of evaluation is value. When we evaluate, what we are doing engaging in the same process that is designed to provide information that would help us make a judgment about given situation. One way to identify the learners who reach the mastery level and who need reinforcement. The material should be meanigful as to the users, the students be able to use it. It also should be appropriate to their age of effectiveness. It should provide a wide range of materials that will enrich and support the curriculum and course objectives

Table 4. Com	nponent Level	of the M	<i>l</i> odule in 1	Terms of	Assessment
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The assessment that measures students' skills	Mean	SD	Remarks
has pre-test and post assessment.	3.98	0.91	Agree
serve as tools to determine students' performance based in every lesson.	4.19	0.89	Agree
provide assessment tools to support multiple intelligences for the learners.	4.19	0.84	Agree
give an opportunity for self- assessment for a particular topic.	4.23	0.72	Strongly Agree
involve an appropriate list of questions that is align to the objectives.	4.27	0.89	Strongly Agree
Grand Mean	4.1	17	Acceptable

Table 4 shows as to what is the components of the learning module in terms



of assessment that measures students' skills was very acceptable as evidences by the grand (M=4.17). This explains further that the respondents agreed on the manifestation of the lesson in the developed module.

The respondents strongly agree that "The assessment that measures *students' skills*" supported by the highest (M=4.27). However, the respondents agree that module needs improvement on "pre-test and post assessment." which garnered the least (M=3.98, SD=0.91). This implies that the objectives of the developed conform with the criteria as evaluated by the respondents.

Table 5 presents that the components of the learning module in terms of usability was very acceptable as evidences by the grand (M=4.12). This explains further that the respondents agreed on the manifestation of the objectives in the developed module.

Level of the Module Features

The Usability of the Learning Module	Mean	SD	Remarks
can be used independently.	4.08	0.90	Agree
involves different activities that are easy to do.	3.94	1.04	Agree
uses words or terms that are easy to understand.	4.06	1.06	Agree
can served as handbooks or set of reference.	4.19	0.87	Agree
is used as a tool for learning development among the students.	4.32	0.89	Strongly Agree

Table 5. Feature Level of the Module Relative to Usability



Grand Mean	4.12	Acceptable
		/.000ptable

The respondents strongly agree that "the usability of the developed module used as a tool for learning development among the students" supported by the highest (M=4.32). However, the respondents agree "involves different activities that are easy to do" which garnered the least (M=3.94, SD=1.04). This implies that the objectives of the developed conform with the criteria as evaluated by the respondents.

Milkova (2014) stated that validity is relating to the usefulness of the content as the researchers believed. The material should be meaningful as to the users, the students be able to use it. It also should be appropriate to their age of effectiveness of the module as well as it provides the necessary information for the student's use.

Table 6 presents that the components of the learning module in terms of consistency was very acceptable as evidences by the grand (M=4.24). This explains further that the respondents agreed on the manifestation of the objectives in the developed module.

The respondents strongly agree that "consistency of the learning module focuses on the main objectives" supported by the highest (M=4.35). However, the respondents agree that "provides learning tasks that are parallel to the objectives of each topic" which garnered the least (M=4.04, SD= .87). This implies that the objectives of the developed conform with the criteria as evaluated by the respondents.

The Consistency of the Learning module	Mean	SD	Remarks
focuses on the main objectives	4.35	0.91	Strongly Agree
consists topic that are logically related to the lesson	4.40	0.87	Strongly Agree
achieves objectives for each lesson	4.25	0.86	Strongly Agree
provides learning tasks that are parallel to the objectives of each topic	4.04	0.87	Agree
contains topics that are interesting about agriculture	4.15	1.09	Agree
Grand Mean	4.2	24	Extremely

Table 6. Feature Level of the Module Relative to Consistency



Acceptable

Rodil as cited by Magdaraog (2018) made a module that the findings revealed that module was assessed to be highly reliable and valid in terms of consistency of the content and objectives.

Table 7 presents that the components of the learning module in terms of adaptability was very acceptable as evidences by the grand (M=4.03). This explains further that the respondents agreed on the manifestation of the objectives in the developed module.

The adaptability of the learning module	Mean	SD	Remarks
provides opportunity for self –study.	4.23	0.95	Strongly Agree
is adaptable to use across curriculum.	4.17	0.91	Agree
can be a manual or a book which is not easy to provide.	3.71	1.11	Agree
can be revised for some other purposes.	3.88	1.00	Agree
provides different activities which is aligned in specific lesson.	4.19	1.04	Agree
Grand Mean	4.0)3	Acceptable

Table 7. Feature Level of the Module Relative to Adaptability

The respondents strongly agree that "provides opportunity for self –study." supported by the highest (M=4.23). However, the respondents agree that "can be a manual or a book which is not easy to provide" which garnered the least (M=3.71, SD= 1.11). This implies that the objectives of the developed conform with the criteria as evaluated by the respondents.

Berger (2015) adaptability ought to include making diverse inquiries thinking about alternate point of view, thinking about the master plan and testing. According to her, adaptability is thinking about intricacy with a very surprising method for taking a gander at the world and changing the attitude. Since the world gets progressively perplexing as time passes by, being versatile is an incredible advantages.

Table 8 presents that the components of the learning module in terms of aesthetic value was very acceptable as evidences by the grand (M=4.31). This



explains further that the respondents agreed on the manifestation of the objectives in the developed module.

The aesthetic value of the Learning module in the developed module	Mean	SD	Remarks
uses suitable text design, font size and type.	4.21	0.99	Strongly Agree
uses appropriate illustration/ pictures that apply for the topic.	4.48	0.82	Strongly Agree
contains simple icons and visually clear images.	4.27	0.96	Strongly Agree
has color pictures to get the attention of the readers and motivate them to answer.	4.35	0.98	Strongly Agree
is printed in clear and easy to understand graphics.	4.25	0.98	Strongly Agree
Grand Mean	4.3	1	Extremely Acceptable

 Table 8. Feature Level of the Module Relative to Aesthetic Values



The respondents strongly agree that "uses appropriate illustration /pictures that apply for the topic" supported by the highest (M=4.48). However, the respondents agree that "uses suitable text design, font size and type" which garnered the least (M=4.21, SD= .99). This implies that the objectives of the developed conform with the criteria as evaluated by the respondents.

Ramos (2014). She created and approved a photograph that composed instructional materials in English were clearly adequate and solid to the substance, abilities, fitting ness, dialect, structure and styles.

Grading Scale	Frequency	Percentage	Descriptors
90 – 100	32	67%	Outstanding
85 – 89	11	23%	Very Satisfactory
80 - 84	4	8%	Satisfactory
75 – 79	1	2%	Fairly Satisfactory
Below 75	0	0%	Did Not Meet Expectations
Mean	92.00		Outstanding

Table 9. Level of the Students' Performance as to Practical Test

Table 9 presented the student's performance in terms of practical test. It can be seen from the table that 32 or 67 percent of the students obtained an outstanding performance in activities. Moreover, 11 or 23 percent of the respondents got a very satisfactory performance, 4 or 8 percent obtained a satisfactory performance, 1 or 2 percent performed fairly satisfactorily. The mean of 92.00 indicates an outstanding performance of the students in the practical test. This means that the students' performance at an average exceeds the normally high performance expected.

As stated by Lee (2015) exercises and activities from the "core' of the module set out the input-processing-output or the input practice task feedback sequence for each activity in turn. All in test questions self-assessment. feedback quizzes practical test should be included as part of the sequence.

Significant Effect of the Components of the Module on Students Performance

The computed p-values were compared to the level of significance at 0.05 to



determine the significant effect of the components in terms of objectives, contents, activities, and assessment of the module on students' performance as to practical test.Revealed in the result below was the significant effect of the components in terms of objectives, contents, activities, and assessment of the module on students' performance as to practical test.

Table 10. Significant Effect of the Components of the Module onStudents Performance as to Practical Test

Module Co	omponents	t-value	p-value	Analysis
Objectives	Practical Test	0.02	0.986	Not Significant
Contents		0.08	0.934	Not Significant
Activities		-0.19	0.848	Not Significant
Assessment		0.09	0.929	Not Significant

*significant at .05 level of significance

It was manifested that the components of the module showed no significant effect on students' performance. The objectives of the module obtained p-value (0.986), contents obtained p-value (0.934), activities obtained p-value (0.848) and assessments obtained p value (0.929) which were all higher than (0.05) level of significance. This further implies that level of evaluation on components of the module may not affect the performance of the students in accomplishing their practical test.

A high assessment on the components of the module will not ensure high performance of the students and vice-versa. Process refers to what is done in order to accomplish a task. The output is, obviously, the accomplishment itself. If you can get the same outcome with less work involved, this would be an improvement.

Table 11. Significant Effect of the Features of the Module on StudentsPerformance as to Practical Test



Feat	tures	t-value	p-value	Analysis
usability	Practical Test	-0.41	0.685	Not Significant Not Significant Not Significant
consistency		-0.71	0.579	
adaptability		0.60	0.555	
aesthetic values		0.48	0.635	Not Significant

*significant at .05 level of significance

Revealed in the above result was the significant effect of the components in terms of practical test, usability, consistency, adaptability and aesthetic value of the module on students' performance as to practical test.

It was manifested that the components of the module showed no significant effect on practical test. The usability of the module obtained p-value (0.685), consistency obtained p-value (0.579), adaptability obtained p-value (0.555) and aesthetic values obtained p value (0.635) which were all higher than (0.05) level of significance. This further implies that level of evaluation on components of the module may not affect the performance of the students in accomplishing their practical test. A high assessment on the components of the module will not ensure high performance of the students and vice-versa.

Summary of Findings

This study was geared towards the development and validation of the learning module in teaching Cookery in TLE. Specifically it sought answers to the following questions: What is the component level of the module with regards to usability, consistency, adapatability and aesthetic value? What is the feature level of the module relative to Student's Performance practical test? Do the components of the module has significant effect to the students performance of Grade 8? Do the features of the module has significant effect to the students performance of Grade 8?

Descriptive method of research was utilized to develop and evaluate the workbook in teaching Cookery. The respondents were Grade 8 students in the UNITED EVANGELICAL CHURCH SCHOOL School Year 2021-2022.

Modular distance learning is one of the learning modalities implemented to deliver continuous quality education. Thus, the development of learning modules



that aids quality teaching and learning to acquisition of desired learning performances.

In this study, the components of the learning module were described in terms of objectives, contents, activities and assessment and was determined by the weighted mean and standard deviation.

The students performance as to aesthetic value presented that the components of the learning module was extremely acceptable. This explains further that the respondents agreed on the manifestation of the aesthetic in the developed module.

However, the respondents agree "the objectives of the developed module were time bounded" garnered the least which means very acceptable, this implies that the objectives of the developed conform with the criteria as evaluated by the respondents.

There is a significant difference in the student's performance in terms of practical test. It can be seen from the table that majority of the students obtained an outstanding performance in activities. Moreover, 23 percent of the respondents got a very satisfactory performance, 8 percent obtained a satisfactory performance, 2 percent performed fairly satisfactorily. The mean of 92.00 indicates an outstanding performance of the students in the practical test. This means that the students' performance at an average exceeds the normally high performance expected.

Revealed in the above result was the significant effect of the components in terms of objectives, contents, activities, and assessment of the module on students' performance as to practical test.

It was manifested that the components of the module showed no significant effect on students' performance. The objectives of the module obtained p-value (0.986), contents obtained p-value (0.934), activities obtained p-value (0.848) and assessments obtained p value (0.929) which were all higher than (0.05) level of significance. This further implies that level of evaluation on components of the module may not affect the performance of the students in accomplishing their practical test. A high assessment on the components of the module will not ensure high performance of the students and vice-versa.

Conclusion

Based on the findings presented in the previous chapter, conclusions were made:

There is no "significant" difference between the validation made by the respondents, the Grade 8 students of UNITED EVANGELICAL CHURCH SCHOOL on the results of validating the developed learning module in Cookery.



Recommendations

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