Flipped Materials of Wetland Texts for English Teaching at Faculty of Teacher Training and Education, Lambung
Mangkurat University

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Abstract. Although smartphones were not prohibited in the campus environment in Era 4.0, smartphones were still limited in their use as a means of communication and connection. Supposedly, the use of this smartphone must of course be observed wisely and maximized by various related parties, for example by making it a medium for learning. The challenge faced in maximizing the use of smartphones for learning is the limitations in processing and or managing existing material. With the various backgrounds and reasons outlined above, the study tries to develop Flipped Materials for English Courses at the Faculty of Teacher Training and Education, Lambung Mangkurat University. This research uses research and development type for Flipped Material on Wetlands in digital form which is developed and tested for its feasibility in a limited scope. For this research, the study took samples with consideration of feasibility in reaching the subjects. Sampling is done by using the Cluster Random Technique because the characteristics of the population used as the research subject are considered to be the same, namely students of ULM semester I.

Keywords: *literasi_digital, flipped_material, wetlands*

INTRODUCTION

1.1 Background

The use of devices in the form of smart phones has been so prevalent in various circles. One of them is among college students. Even though the use of smartphones was not prohibited in the campus environment in the era of 4.0, smartphones are still limited in their use as a means of communication and connection. various related parties, for example by making it a medium in learning. It is important to see how the use of smartphones as learning media outside the network (offline) and online.

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The challenge faced in maximizing the use of smartphones for learning is the

limitations in processing and /or managing existing material to be more focused on

increasing digital literacy. The making of electronic materials such as electronic books

really requires experts in the field of information technology. The management of

electronic materials itself also requires technology literate personnel. As a resource for

smartphone users, Lecturers seem to be unable to fully utilize the offline and online modes

available to assist learning in their classes.

Therefore, for lecturers, smartphones' widespread use can be used to train and

improve students' digital literacy, especially for electronic materials in English. Various

studies have found that students' level of speed and reading ability in English is still

lacking. This should trigger teachers to try various ways, one of which is the use of

smartphones both offline and online. With the various backgrounds and reasons outlined

above, the proposer tries to find student digital literacy for Wetlands and develops Flipped

Materials for English Courses at the Faculty of Teacher Training and Education, Lambung

Mangkurat University. The research problem under study is formulated in the form of the

following questions: How is the development of Flipped Materials in learning English for

Wetlands in English Courses at the Faculty of Teacher Training and Education, Lambung

Mangkurat University?

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THEORETICAL SUPPORT

Offline and Online

According to Ardi (https://bfl-definisi.blogspot.co.id/2016/12/arti-dari-kata-daring-

dan-luring.html; accessed April 5, 2018), online often stands for "in the network ", where

the word online is to replace the word" online "which we often use in connection with

internet technology. So when we hear the phrase" online learning ", it means learning that

is done online is like using edmodo. Edmodo itself is a web that provides social networking-

like learning platform that we can use for free. Here all material is distributed online,

communication is also carried out online (such as Facebook chat facilities) and

examinations are also online. One example of a site that must be accessed online is the

following site www.w3schools.com/css/css_syntax.asp.Luring this is an acronym for

"outside the network", where the word offline is to replace the word "offline". The word

"offline" is the opposite of "online". Because the word "offline" is to replace the English

word "offline", the meaning of the word "offline" is in no way connected to the internet or

intranet. Because there are still some people classify "online" as internet connected online

and "offline" as an intranet. One of the url addresses which means it is accessed offline is

file: /// D: / E-Book / w3schools_offline, which starts with the word file followed by the

name of the drive and folder.

Flipped Material

According to Kurnia and Astuti (2017: 150), Internet users in Indonesia have reached

51.8% of the total population of Indonesia. The composition can be said to be balanced

between men (52.5%) and women (47.5%). This allows for a mixed learning process

(blended learning) which seems to be more effective for learners in this millennial era.

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Catle (2018: 3-4) in his study recounts the conditions that occur in the Philippines, where

as a result of a shortage of teachers, classes, facilities and equipment, the learning period

in class is shortened per subject with narrow class room sizes. This of course reduces the

quality of the learning carried out. For this reason, then Catle (2018: 4) developed Flipped

Instructional Material online for certain topics in Chemistry lessons that can be used by

local teachers in their area according to the curriculum for the K-12 Program.

Flipped Materials offered various conveniences or benefits. Catle (2018: 12) quotes

from Brame (2013), the Vanderbilt University Teaching Center identifies important

elements in the use of Flipped Materials. First, this strategy provides an opportunity for

students to get the first exposure to content before class. Second, Flipped Material that is

given earlier can provide incentives for students to prepare themselves for learning. Third,

Flipped Material conditions activities in the classroom that focus on higher levels of

cognitive activity. Finally, an important element that will be explored is the opening of a

broad mechanism for assessing student understanding because class meeting time is used

more for critical thinking, not knowledge acquisition.

These four elements are supported by the research results of Lepp and Tonisson

(2015: 225) which conclude that:

"Two thirds of the students think that the flipped classroom approach helps them

to learn better and more than they would learn in traditional class."

In their research, students as respondents were asked for their opinions after

attending a classroom learning workshop using the Flipped Classroom Approach. Two

thirds of respondents admit that this approach helps them learn better. Lepp and Tonisson's

research was conducted in the field of computer programming. Research has not been found that implemented Flipped Material in the field of teaching English, especially for learning reading skills.

Teachers can combine face-to-face interactions with online learning to increase digital literacy. According to Basyah (2018: 3) Flipped Classroom Material is material in instructional videos, Teaching Material Books, and Practice Guidelines distributed in the form of files and owned by each student. Furthermore, according to him, the Flipped Classroom principle is a learning method in which the theory class is no longer in school but is reversed anywhere. Shing Mei & Keng Wah (2015) compare the Traditional Class and the Flipped Classroom as shown in Table 2.

Table 2. Comparison between Traditional Class and Flipped Classroom

Learning	Traditional classroom	Flipped Classroom
location		
In class	Teacher instructs/ lectures in	Students complete assessments
	class while students take notes.	and homework while getting
		support from teacher.
Out of	Students complete assessments	Teacher instructs lesson
class	and homework given by teacher.	through video, books, websites,
		etc. while students learn from
		the sources.

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According to Shing Mei & Keng Wah, learning that occurs both in the classroom for

these two types of learning lies in what teachers and students do. In traditional classrooms,

teachers provide more lectures and students take notes. In the Flipped Classroom, students

are more active in solving problems guided by the teacher. Meanwhile, outside the

classroom, students are given various assignments and homework in the Traditional Class.

Meanwhile, in the Flipped Classroom, the material is given through various media as a

learning resource.

The advantages of Flipped Classroom or Flipped Learning have of course been

proven through research from various scientific fields. Research from Gillispie (2016: 35)

shows that there has been an increase in learning outcomes in students in the Department

of Obstetrics and Gynecology at the University of Queensland, Los Angeles, after the

implementation of learning with Flipped Classroom. Lee and Park's research (2018: 76)

also found that the Flipped Learning group improved their ability to set goals, self-

leadership beliefs, and capacity for rational problem solving more than the Traditional

Learning group. There is a wealth of evidence demonstrating that an active e-learning

approach improves cognitive abilities, including critical thinking.

Development Model

Dick, Carey, and Carey conceptualise learning design as a system and learning as a

systematic process. Indeed, this methodical approach is embodied in the systems approach

model. Dick, Carey, and Carey emphasise that the systems approach always refers to the

general stages of instructional systems development (Instructional Systems Development

/ ISD). When discussing design issues, incorporate them into the process; the term

Instructional Design (ID) refers to Instructional System Development (ISD), specifically

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the stages of analysis, design, development, implementation, and evaluation. The umbrella

field is instructional design.

The learning system design model proposed by Dick and Carey has long been used

to create effective, efficient and attractive learning programs. The model developed is

based on the use of a systems approach or system approach to the basic components of a

learning system design which includes analysis, design, development, implementation, and

evaluation. This model consists of several components and sub-components that need to

be done to design a larger activity. The development of this learning system design model

is obtained from theory and research results and practical experience gained in the field.

The implementation of this learning system design model requires a systematic and

comprehensive process. This is necessary to be able to create a learning system design that

can be used optimally in overcoming learning problems. The steps of the Dick and Carey

model can be explained as follows:

1. Identification of needs and determining general goals, this is the initial stage, namely

determining what needs are desired so that students can do it when they have completed

the learning program and determine the general goals to be achieved.

2. Conducting an instructional analysis, namely determining what abilities are involved in

the learning process to achieve goals and analyzing the topics or material to be studied.

3. Identifying the initial behavior and characteristics of students, when analyzing the skills

that need to be trained or learned and the stages of procedures that need to be passed, the

students' initial skills are also considered.

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4. Formulate performance goals or specific learning objectives. Based on instructional

analysis and statements about students' initial behavior, a specific statement is formulated

about what students should do after completing the lesson.

5. Development of benchmark reference tests. The development of a benchmark reference

test is based on formulated objectives.

6. Development of learning strategies. Information from the previous five stages, a learning

strategy is developed to achieve the final goal.

7. Development or selecting learning materials. This stage will be used to select or develop

learning materials including instructional instructions for students, materials, tests and

teacher guides.

8. Design and carry out formative evaluations. Formative evaluation is carried out to

collect data, identify data, process data, and analyze data about the program being

developed. The results are to describe whether the program developed is good or not. If

not, it must be revised and if it has, it must be maintained.

9. Design and carry out summative evaluations. This stage is an advanced stage to see the

usefulness of the program after being implemented in the field.

10. Revision of learning. This stage repeats the learning system development cycle. Data

from summative evaluations that have been carried out in the previous stage are analyzed

and interpreted.

The characteristics of the main R & D steps used are Borg and Gall (2003), namely:

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a. Conducting initial studies or research to find research findings related to the product to

be developed.

b. Develop a product based on the research findings.

c. Conduct field tests in actual settings or situations in which the product will be used.

d. Make revisions to fix weaknesses found in the field test stages.

METHOD

This research uses a type of research and development study, namely the

development of Flipped Material for Wetlands in digital form, developed and tested for its

feasibility in a limited scope. The population of this study were all study programs in the

Teaching and Education Faculty (FKIP), Lambung Mangkurat University (ULM). At the

Faculty of Teacher Training and Education (FKIP), Lambung Mangkurat University

(ULM), there are 21 study programs which in the Academic Year 2020/2021 require

English I in the first semester in the Independent Learning-Campus Free Curriculum

(MBKM) Sample selected randomly with considerations of feasibility in research through

the Cluster Random Technique because the characteristics of the study population are

considered the same, namely the first semester ULM students. English I in Academic year

2020/2021. The development model used is an adaptation of Dick and Carey (2001) and

Borg and Gall (2003). For the development of Flipped Material for Wetlands, the

instruments used are made according to the development stages.

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RESULT AND DISCUSSION

The results of the research implementation that have been achieved include

development steps and the feasibility of Flipped Material in learning English for Wetlands

material. Three of these four things have been implemented and included in the progress

report of this research so that only three research focuses are included in this report.

The procedure for developing flipped material teaching materials in this study uses

a research procedure whose steps are carried out in the Covid 19 Pandemic so that there

are limitations that must be tolerated. By adapting the main development research steps

from Dick and Carey (2001) and Borg and Gall (2003), the development step is simplified

into four main steps.

1. Initial study or research to find research findings related to the product to be

developed

The form of study or initial research is the identification of problems in the use of

learning materials in class through a review of existing teaching materials, namely the

IRDH published textbook in 2017 entitled English for University Students where the

designation is English Language Courses. Next is the analysis of the syllabus or semester

learning plan (RPS), especially analyzing the CPL, CPMK and KATP.

2. Product development based on initial research findings.

The drafting of Flipped Matrial teaching materials is based on the needs of students,

both as stated in the syllabus or RPS or according to the ongoing situation and conditions.

Flipped Material can be the answer where learning conditions during the Covid 19

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Pandemic are more directed online. Still more or less the same as the predecessor material

in book form, this Flipped Material also emphasizes Reading Comprehension material

because the need for reading is prioritized in higher education.

Expert validation was carried out in a limited manner to determine the suitability of

the draft Flipped Material teaching materials with the RPS. After this content validation

has been done, revision is the next step. Revising the draft Flipped Material teaching

materials must be based on the results of expert validation.

3. Field tests in actual settings or situations where the product will be used.

The trial of Flipped Material teaching materials in English courses was carried out

twice, namely in small groups of student representatives from several study programs. At

the beginning of the 2020/2021 academic year, all ULM students took the Cambridge

English Placement Test (CEPT), including FKIP students. Of the four study programs that

were the research samples, 2 students with the lowest and highest levels of CEFR Level

were directly proportional to the results of the trial scores. In other words, the Flipped

Material used is in accordance with the English skills of the students who are the limited

trial sample. On a larger scale, Flipped Material. Flipped Material was tried out on a larger

scale on students from the Classroom Mathematics and Biology Education Study Program.

In the group scale trial, it was also seen that the results of the CEPT which were

stated in the CEFR level showed results that were directly proportional to the scores of

students for the Flipped Material trial. At this stage, it can be concluded that the Flipped

Material being developed can be accepted according to the students' abilities.

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4. Revisions to correct weaknesses found in the field test stages.

Revising Flipped Material teaching materials based on limited-scale and group trials

was carried out by looking at student achievement, especially by analyzing the lowest and

highest number of scores. If there are too many low scores, then the Flipped Material

calculation is still too difficult and must be revised. Likewise, it is seen that students

achieved more high scores. This means that the questions are still too easy for the student

level so that the Flipped Material developed needs to be revised in terms of reading, both

text length and vocabulary difficulty, and in terms of questions, it is by reviewing the types

and levels of difficulty of the questions.

CONCLUSION

In this study, a problem formulation is the focus, namely about the development of

Flipped Materials, focusing on the steps to develop Flipped Materials in learning English

for Wetlands and the feasibility of Flipped Materials in learning English for Wetlands.

Thus, it can also be concluded that the Flipped Material that was developed up to the group

trial stage still needs to be revised to suit the students' abilities, which can meet the needs

of students in English lectures.

Suggestions for research plans in the following year based on the output indicators

that have been achieved are a set of flipped materials that have been successfully recorded

in the form of digital material that can be accessed offline because in this study all material

is presented online. For future research on the implementation of Flipped Material, it is

hoped that it will be more comprehensive in material units for a course, not limited to

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English courses for study programs outside English Education, because this research only produces samples of Flipped Materials.

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