

THE DEVELOPMENT ESP WEB BASED LEARNING MATERIAL FOR NURSING STUDENTS OF INSTITUT TEKNOLOGI KESEHATAN (ITEKES) BALI

Ni Wayan Novi Suryati¹, I Putu Agus Endra Susanta², Kadek Maya Cyntia Dewi³

^{1,2,3}Institut Teknologi Kesehatan (ITEKES) Bali
novisuryati92@gmail.com¹
maya.agapita88@gmail.com²
ramaendra@gmail.com³

ABSTRACT

English is one of the compulsory subjects taught in Nursing Study Program in Institut Teknologi Kesehatan (ITEKES) Bali. During the English learning, there are 2 major problems faced by both the lecturers and the students; English learning material which still presents general English and the learning process that has not utilized technology yet. This research aimed at (1) identifying the nursing students' needs toward English learning material, (2) analyzing the appropriate web-based English learning material for nursing students, and (3) designing and developing the suitable web-based English learning material for nursing students of ITEKES Bali. This was a research and development following 3 stages, namely (1) analyzing the needs through questionnaires, (2) developing a prototype and trying out, (3) validating the product. Thirty nursing students and 10 nurses were involved in this study. It was found that they need an English learning material covering the language expression of greeting and welcoming patients, establishing a relationship with patients, human body, respiratory system, digest system, neuron system, immune system, cardiovascular system, reproduction system, and family care. Based on the results of expert validation, the developed English material can be implemented in an English learning for nursing students.

Keywords: Web-based learning, English for Specific Purposes, Research and Development, Nursing

INTRODUCTION

The ability to speak English is becoming an added value in everyone's life. People who can speak and understand English are considered as the ones who are able to compete in this global era. It is not surprising that English is the international language used by everyone all over the world to communicate when they meet other people from other countries who speak different language. Then English is seen as an important language to be taught at schools. It can be found in each curriculum implemented in almost schools in this planet; from kindergarten to the higher education. Institut Teknologi Kesehatan (ITEKES) Bali is one of the universities in Bali considering English as an compulsory subject. The goal of this university is graduating excellent talents in medical area which can be able to compete internationally. There are 10 study program that are ran under ITEKES Bali and all of those study program inserts English in their curricula. One of them is the nursing study program which also has English in its curriculum.

English subject in the nursing study program aims at improving students' ability in English in order to be able to work in an international working atmosphere. During the English teaching and learning process, both students and English lecturers found 2 major problems that should be solved immediately. Those problems were (1) the unsuitable English learning in which it stills present general English and (2) the lecturers who have not utilize the development of technology in the learning process yet. The unsuitable English learning material used during the learning process affects the students' English mastery. The students master general English which is not really related to the future carrier as nurses. They should possess the ability to master English for nurses. It can be said that the learning material should be English for specific purposes based. Another problem is the development of technology which

has not be utilized yet by the lecturers in the learning process. This causes boredom in students' mind. Some lecturers still conduct the learning process conventionally which can be said it does not meet the students' interests and needs.

Those problems in English learning process occurring in ITEKES Bali led the researcher to conduct this study. The objectives of this study were (1)analyzing the needs of students of nursing study program in ITEKES Bali regarding to an English learning, (2) finding out the suitable English learning model for nursing students of ITEKES Bali, and (3) developing a set of learning materials to support the English learning in nursing study program of ITEKES Bali.

The development of learning material in this study was based on the theory of developing an ESP material proposed by Hutchinson and Waters (1987). Hutchinson and Waters mention 3 ways that a learning material developer can do to develop an English learning material. They are (1) selecting the existing learning materials by evaluating them, (2) writing a new learning material, and (3) modifying or adapting the existing learning materials. Each of those ways has its own strengths and weaknesses. But among those 3, writing a new learning material is considered as the most proper way to develop an ESP based learning material since the learning material can be designed by the needs of the users. Besides writing a new learning material helps the ESP teachers of instructors to build their sensitivity towards the things that bring success to the learning process.

Since in the development of ESP learning material, ESP lecturers of teachers may write their own learning material, they also may combine it with the things that are needed to make the learning process runs successfully. Nowadays, many ESP lecturers or teachers bring technology into the classroom. They utilize the projector, laptop, smartphone, and many more things. It is based lecturers' creativity in designing and planning the learning process. Ibrahim et.al point out that a professional teacher or lecturers are not only able to make their students learn, but also being able to manage the environment and information to facilitate students in learning. One of the technologies that can be implemented in a learning process is website.

There are 4 main principles in implementing website in a learning process. Those principles are (1) effective and efficient, (2) optimal, (3) interesting, and (4) stimulating students' creativity. The use of website in a learning process should be effective and efficient which means that a website should make a learning process runs more effectively in terms of the absorption of information and knowledge, the cost and time that should be spent. Another principle of using website in a learning process is it should be optimal. Optimal in this case means that the use of website in the learning process should make the process more up to date and more widely open. The use of website in the learning process should be interesting and should be able to attract students' attention in learning. The last one is the use of website should stimulate students to be more creative in learning process by digging out their inner talents.

Previously, some relevant researches on the development of ESP based learning material haven been conducted by researchers. In 2016, Safaat and Kartikadarma conducted a research entitled The Implementation of Efront in Web based Smart English. The study aimed at proving an alternative source of learning in the form of e-learning to help students build a better understanding. But the data used in the research was only coming out from one source since then there was no data triangulation. It is considered as the weakness of the study. Another research on ESP has been done by Dewi (2015). Through the research, Dewi developed an ESP based learning material using communicative approach which put great concern on character building. The results showed that students involved in the research improved their willingness and interest in learning ESP for hospitality.

Those theories and previous relevant research have become the reference to conducting this study which is developing a web based ESP learning materials for nursing students of ITEKES Bali.

RESEARCH METHODOLOGY

This study was designed as a research and development aiming at developing web based ESP learning materials for nursing students of ITEKES Bali. There are 3 steps that should be followed in conducting a research and development model (Sukmadinata, 2008).

Those steps are (1) step of exploration in which it finds out students' needs in learning, (2) step of development where the researcher develops a prototype, and (3) step of validation to validate the product developed and it is commonly done by doing expert validation. In collecting the data, the researcher distributed questionnaires to 30 nursing students of ITEKES Bali to find out their needs in learning English. The results of needs analysis became the guideline in designing and developing a prototype. The prototype that has been developed was validated by the experts on English education and nursing.

FINDINGS

The results of data analysis, there are 3 important findings which are closely related to the 3 research problems. Those (1) the needs of nursing students of ITEKES Bali regarding to an English learning, (2) the suitable English learning model for the nursing students of ITEKES Bali, and (3) the ESP based learning materials developed for nursing students of ITEKES Bali. Each of those findings is described in detail below.

The needs of nursing students of ITEKES Bali regarding to an English learning

Questionnaires were used by the researcher to gain the data of nursing students' needs on an English learning. The questionnaires were distributed to 30 nursing students of ITEKES Bali. Based on the results of need analysis, there were found that nursing students of ITEKES Bali needed an English learning with these 13 characteristics.

First, they needed an English learning that is suitable and proper for a nursing student or even a professional nurse since their learning material still contains general English. Then they needed an English learning which can help them in the future professional work field. It includes greeting and welcoming patients, establishing a relationship with patients, human body, respiratory system, digest system, neuron system, immune system, cardiovascular system, reproduction system, and family care. The second one, they needed an English learning which is presented in an interesting way or method. They tend to enjoy an English learning process which is fun but it is still meaningful to avoid boredom in learning. The third need is technology based English learning. This is quietly related to the absence of technology in the English learning process occurring in ITEKES Bali. Then they needed a technology based English learning which they can access anywhere and anytime.

Fourth, they needed an English learning providing a lot of examples of English conversations. This is to help them get better understanding on how English is used in a daily conversation between a nurse and a patient or doctor. Then they also needed an English learning which provides chances and opportunities for them to exercise and train their English ability. Exercises are important in second or foreign language learning. The sixth one is they needed an English learning which they can understand easily. It is related to the level of materials presented. The material should meet students' level of English but it still provides challenges for students to learn. They also needed an English learning using videos to help them to pronounce the English vocabulary correctly. They also mentioned that they needed English learning that are delivered using various interesting classroom activities.

Ninth, they needed an English learning that can help them to improve their listening skill. They perceived that listening skill is important in a communication in order to understand what people say and the communication runs effectively. Regarding to this, they needed an English learning that can help them to improve their speaking ability. They think that they will need speaking skill a lot in the professional work. They also needed an English learning that can improve their reading ability. Reading skill is need in the professional world of a nurse since they will receive a lot of mail from patients, doctors, and other colleague. Then they said that they needed an English learning that can improve their writing skill in order to be able to do correspondence better. The last thing is they needed an English learning which can enrich their vocabulary mastery. They believe that being rich in vocabulary mastery can help them to do a better communication. Those are the nursing students of ITEKES Bali needs regarding to an English learning.

The suitable model of English learning for nursing students of ITEKES Bali

The results of need analysis presented above were becoming the guideline for the researcher to find out and determine the most suitable and proper English learning model for nursing students of ITEKES Bali. Based on the results of need analysis, the research found a proper English learning model with 6 criteria. First, English learning that is based on website. This meets the need of technology based English learning. Web based English learning helps both students and lecturers in conducting learning process. The lecturers can easily present the topic and material by uploading them in the website, while the students can easily access the material by accessing the website anywhere and anytime. The second one is an English that can improve students' 4 language skills (listening, speaking, reading, and writing). An English learning should give chances for students to improve their skills in reading, listening, speaking, and writing. It also should provide a space for students to enrich their English vocabulary.

The forth one is an ESP based learning for nursing students. The topics and materials presented and delivered should be relevant with nursing field. It is to help students to be better in conducting communication in their professional work. Then the learning process should use many sources of learning and media. Lecturers may use books, e-books, articles which are reliable and relevant with the learning topic. Besides, the lecturers may present and deliver the learning material by using videos, songs, games, pictures, and many more media of learning. The last one is an English learning should be easily understood by students. The learning material presented and delivered in the classroom should be one step higher than students' level of English mastery. The students can understand the material easily but it also still gives students challenge to achieve more.

The development of web based ESP learning materials for nursing students of ITEKES Bali

The development of ESP learning materials in this research was based on the need analysis as well as the analysis of the suitable English learning model described previously. The research developed a set of learning material which includes syllabus, lesson plans, and learning materials. Those are presented in a website where lecturers and students can access them easily.

The syllabus developed in this research aimed at determining the area or scope on ESP learning for nursing students of ITEKES Bali. It makes the learning topics and materials stay on the right track that is relevant with nursing field. The syllabus contains several main components which can be easily understood by the ESP teachers of lecturers. Those components are (1) learning topic, (2) learning objectives, (3) language function, (4) language expressions, (5) language structure, (6) learning activity, (7) recommended learning sources, (8) time allotment, and (9) assessment. In the learning topics, learning topics that should be delivered in one semester are presented in the syllabus. Then in the section of learning objectives, the lecturers will find the learning objectives of each topic. So then the lecturers can see whether the objectives are achieved or not at the end of the lesson. In the sections of language function, expressions, and structure, the lecturers can found which language aspects that are relevant and should be delivered to the students. The syllabus also provides the learning activities that can be done in the classroom to achieve the learning objectives. Then the lecturers also can see the alternative or recommended learning sources to be used in the learning process. Time allotment as well as the assessment are also provided in the syllabus.

The second product developed through the research is lesson plans. The lesson plans were developed based on the syllabus. The development of lesson plans in this research aimed at providing an alternative ways of teaching for ESP lecturers. In the lesson plan, ESP lecturers can find some features that can help them in conducting a learning process. Learning topic as well the objectives of the learning are presented in the lesson plan. It is to make the lecturers aware on what their students should achieve at the end of a certain learning topic. The most important features in the lesson plan is the procedure on how a learning process should be done. The learning activities are ranging from the beginning until the how to end the session. It is also provided by the time allotment for each activity which can keep the lecturers to stay on the track while teaching.

The last product developed is a learning material. The learning material can be a supplementary learning material or can be an alternative learning source or even be the main source of learning. As the lesson plan, the learning material also includes several features. They are (1) introduction to the topic, (2) learning objectives, (3) the material, and (4) exercise. In the introduction, the students and lecturers are provided by the information of how the topic is relevant with the nursing field. Meanwhile, in the learning objectives the students can see the things they can learn and master at then of the topic. In the material section, the students and lecturers can find the language expressions and structure that re useful for them. The last one, the students may practice and implement what they have learned in the section of exercise.

The syllabus, lesson plans, and learning material cover similar learning topics. There are 12 learning topic presented in the set of learning materials. Those topics are (1) greeting and self-introduction, (2) understanding and giving direction, (3) making an appointment, (4) checking patients' details, (5) describing symptoms and disease, (6) measurement and quantities, (7) describing medicine, (8) checking vital signs, (9) understanding and giving instructions, (10) giving suggestions, (11) body parts and movement, and (12) communicating with team.

The syllabus, lesson plans, and learning material developed have been validated by 2 experts in English education. The results of expert validation showed that the products have good quality and it can be used in the ESP learning.

CONCLUSION AND RECOMMENDATION

The findings of the research can be concluded that the learning material should be ESP based and technological based to meet the needs of students. Then ESP lecturers or teachers should design and plan a lesson that can help students to improve their English ability. This research aimed to solve the problem in ESP lesson by developing a set of products that can be used by ESP lecturers and students. The products are syllabus, lesson plans, and learning material. Those can be accessed in a website. The products can be used in the ESP lessons as an alternative or even main source of learning based on the results of experts' validation.

Then it is suggested to ESP lecturers to be more selective in selecting learning sources or materials for students since an inappropriate learning source may lead to different results.

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