

Received : November 06, 2021

Accepted : November 13, 2021

Published : February 08, 2022

Conference on Community Engagement Project

<https://journal.uib.ac.id/index.php/concept>

THE DEVELOPMENT OF DIGITAL-BASED ECONOMIC TEACHING MATERIALS FOR SMA ANANDA BATAM

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Abstract

Since the Covid-19 pandemic, all human activities have undergone major changes. Among them are teaching and learning activities that should be done face-to-face, are now conducted online. The lack of teaching resources in the Covid-19 era triggered the implementation of community service activities at SMA Ananda Batam. This activity aims to help teachers by compiling digital teaching materials according to the needs of SMA Ananda Batam. This activity is carried out by interviewing teachers to learn about the problems faced by teachers. Through interviews conducted, it is known that digital teaching materials for Economics class X are in need, thus the output for this activity is in the form of digital teaching materials for class X Economics in the form of teaching module, powerpoints, question banks and solution banks, and presentation video. Digital teaching materials that are in line with the school curriculum are very beneficial for SMA Ananda Batam because they can make online teaching and learning activities more efficient and the subjects offered can be more easily understood by students. The recommendations for the next community service activity are to create new innovations, such as quizzes in the form of games and animated videos so that students are more active in online teaching and learning activities.

Keywords: *Digital Teaching Materials, Economics, Online Activities*

Introduction

School is a formal institution for students to pursue knowledge and education. In general, schools provide teaching staff (teachers) and all infrastructure facilities to students so that the learning process can be carried out optimally. The teachers are a very important figure in teaching and learning activities because they are the one who provides knowledge and education directly to students, while school infrastructure facilities act as a complement to the learning process in order to improve and facilitate the teaching and learning process (Eva, 2016). Technological advances in Era 4.0 are seen to help various industrial fields. One of the areas affected is the education sector. With the advancement of technology, everyone can easily access educational resources (M.Husaini, 2016). This is very helpful, especially during the Covid-19 pandemic, which resulted in the mandatory reduction of activities outside the house. As one of the government's efforts to reduce Covid-19 cases, the government requires all formal education activities,

both schools and colleges, to be carried out through distance learning (PJJ) (Khasanah et al., 2020). Distance learning (PJJ) or online teaching and learning activities require the preparation of a set of complete and interesting digital teaching materials so that students remain motivated and interested in studying (Smaragdina et al., 2020). Considering that there are only eighteen teaching staff (teachers) in SMA Ananda Batam, the preparation of digital materials is certainly a difficult thing (Syah, 2020). Therefore, to ease the burden of teachers, community service activities at SMA Ananda Batam need to be carried out. Community service activities at SMA Ananda Batam aim to help teaching staff (teachers) by compiling digital teaching materials according to the needs of SMA Ananda Batam, namely material module, powerpoints, question banks and solution banks, and presentation video for class X Economics. Digital teaching materials that are in line with the school curriculum is certainly beneficial for SMA Ananda Batam because it can make online teaching and learning activities or distance learning (PJJ) more efficient and the subjects offered can be more easily understood by students.

Methods

Data collection for community service activities at SMA Ananda Batam is carried out through an interview process with the Economics lecturers (teachers) so that the material is arranged practically and in accordance with the curriculum used. After the references are collected and mastery of the material is mature, the preparation of material module, powerpoints, and question banks along with solution banks will be carried out. The next activity is to make a video containing elaboration and presentation of materials (powerpoints) that have been prepared. The video then continues in the editing process in the iMovie software. Community service activities at SMA Ananda Batam take place from October 01, 2021 to December 15, 2021. The interview process, material exploration, and reference collection are carried out throughout October, while the preparation of digital teaching materials is carried out at home from November 1, 2021 to December 14, 2021. Then, digital teaching materials that have been successfully compiled will be finalized and submitted to the school on December 15, 2021.

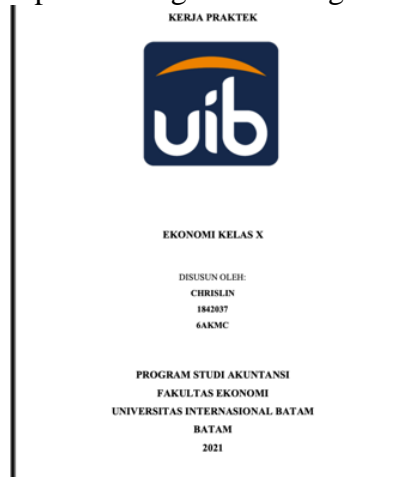
Result & Discussion

Community service activities at SMA Ananda Batam take place from October 1, 2021 to December 15, 2021. The interview procedure with SMA Ananda Batam via WhatsApp is the beginning of the preparation stage. Interviews were conducted with the aim of gathering information and requests from the school that are expected in this community service activity. Some of the information and requests from the school collected during the interview process will be reviewed and summarized into an approval proposal. The application for approval of community service activities at SMA Ananda Batam is then sent to the supervisor for review before being submitted to the dean of the accounting for final approval. After the proposal was approved, the community service activities at SMA Ananda Batam were followed by interviews with the relevant Economics subject teachers to understand the concepts and criteria for digital teaching materials that are expected to be in line with the school curriculum. The digital teaching materials compiled in

this activity are in the form of material module, powerpoints, question banks and solution banks, and presentation video that are compiled based on achievement indicators and basic competencies obtained through the interview process. In accordance with the results of interviews obtained from the school, the only digital teaching materials needed are powerpoints and a question bank along with solution banks. However, material module and presentation video for some materials are still being prepared to enrich understanding of the material. In the module, apart from explaining the materials, multiple practice questions and essay exercises are also provided to test students' understanding of the related material. The material discussed in the module consists of discussing the concepts of economics, economic problems, and economic systems. The video made is a presentation video on the compiled powerpoint. The material discussed are the concept of economics, economic problems, and economic systems. The recorded video is then edited using iMovie software. The material discussed in community service activities at SMA Ananda Batam is divided into five powerpoints. The first material discussed is entitled "The Concept of Economics". This powerpoint discusses several materials regarding the concept of economics, namely: understanding economics, sharing economics, understanding scarcity, factors causing scarcity, various needs, understanding opportunity costs, economic principles, economic motives, and economic actions. The second material discussed is entitled "Economic Problems and Economic Systems". This powerpoint discusses several materials, namely: classical economic problems, modern economic problems, understanding the economic system, various economic systems, characteristics of the economic system, strengths and weaknesses of the economic system, and understanding and values of the Indonesian economic system. The third material discussed is entitled "Actors of Economic Activities". This powerpoint explains economic activities and identifies production, distribution, and consumption activities, along with diagrams of the interaction of economic actors. The fourth material discussed is entitled "Markets in the Economy". This powerpoint describes and presents materials on demand, supply, market equilibrium, price elasticity, and market structure. The fifth material discussed was entitled "Financial Service Institutions". This powerpoint explains material about bank institutions, non-bank institutions, and the Financial Services Authority (OJK). In addition, at each sub-section and at the end of each chapter, there are practice questions to enrich students' understanding of the material discussed. In accordance with requests from the school, digital teaching materials are equipped with question banks in the form of multiple choice and solution banks accompanied by explanations. The question banks and solution banks are prepared based on material on the concept of economics, economic problems and the economic system, actors in economic activities, markets in the economy, and financial service institutions. The question bank and solution banks that have been compiled are presented in two different Microsoft word files, with the aim that the questions are done by students first before the solutions are distributed by the teacher.

Digital teaching materials are expected to support and provide benefits for teaching and learning activities, so that understanding of the related materials gains more leverage. Digital teaching materials that are considered interesting at the

evaluation stage are also expected to reduce the level of boredom among students, especially during online learning activities. SMA Ananda Batam said that the school is very willing to implement digital teaching materials in the next semester.



Picture 1.

Material Module Source: Processed teaching materials (2021)



Picture 2.

Presentation Video Source: Processed teaching materials (2021)



Picture 3.

Powerpoint (1) Source: Processed teaching materials (2021)



Picture 4.

Powerpoint (2) Source: Processed teaching materials (2021)



Picture 5.

Powerpoint (3) Source: Processed teaching materials (2021)



Picture 6.

Powerpoint (4) Source: Processed teaching materials (2021)



Picture 7.

Powerpoint (5) Source: Processed teaching materials (2021)



Picture 8.

Question Bank & Solution Banks Source: Processed teaching materials (2021)

Conclusions

Community service activities at SMA Ananda Batam aim to help teaching staff (teachers) by compiling digital teaching materials according to school needs, namely: material module, powerpoints, question banks and solution banks, and presentation video for grade X Economics. Digital technology that has been prepared cannot be applied at this time, hence the success of this service activity cannot be determined. However, based on feedback and evaluation from school, the designed outputs are considered to be able to help the school and students in online teaching and learning activities because it is interesting and in accordance with the school curriculum.

Community service activities at SMA Ananda Batam are considered good by the school in terms of developing digital teaching materials, so the university should continue to hold community service activities like this in the future to help other parties who need assistance. The recommendations for the next community service worker are to create new innovations, such as quizzes in the form of games and animated videos so that students are more active in online teaching and learning activities.

The author also does not forget to give thanks to Almighty God, because of His grace the author was given the fluency to complete this service activity. The author would also like to thank the supervisor, teachers of SMA Ananda Batam, and friends who have helped the author.

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