

The Opportunity of Implementation STEM Education Integrated with Language Teaching in Indonesian Elementary Schools

Ferril Irham Muzaki

ferril.irham.fip@um.ac.id

Department of Preschool and Elementary Education

Faculty of Education, Universitas Negeri Malang

Abstract:

Education in Indonesia currently requires sufficient performance to improve abilities and skills in conducting critical discourse. To improve the ability, the performance of the community is needed to develop the characteristic values of each individual. With STEM Education in elementary schools, the existence of an education system that provides opportunities for the creation of humane learning and has character education values. The development of STEM-based character education values in elementary schools will be synchronized along with the development of information and communication technology which provides opportunities to develop character education values and nationalist insights. To develop this, STEM Education in elementary schools requires efforts to improve the skills and proficiency of an individual in terms of developing interests and identity. STEM Education can be taught in elementary schools in Indonesia, on extra-curricular materials such as robotics.

Keywords: STEM Education, Integrated Learning, Extra Curricular Activity, ICT, Cross Curriculum

The development of Covid 19 pandemic conditions is currently a combination that creates storms and turmoil that occurs in the educational environment. Bhattacharya, Singh and Hossain (2020) states that character education strengthening programs, each individual to develop character education values that provide opportunities for individuals to develop themselves as well as character education values. To develop character education values that provide individuals with opportunities to develop values and norms that provide opportunities to develop skills and skills to make individuals be divided by the ability to codify data and programs. To develop applications, adequate performance is required to improve the quality of Indonesian education. Zhou, Huang, Cheng and Xiao (2020) state that education is facing a lockdown that demands a policy to school from home.

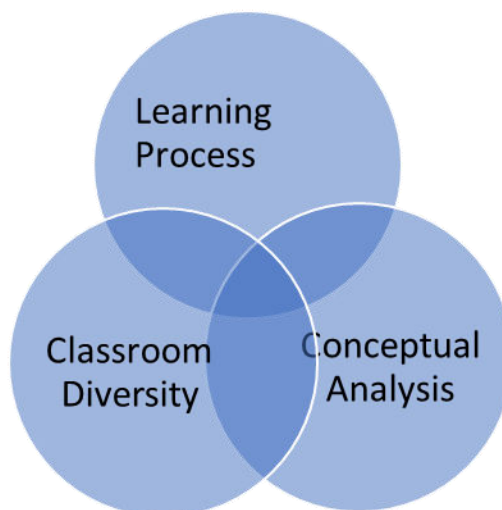
Gal (2018) states that for developing character education values are an integral part of the structure and design by designing the values of character education. To develop character education values in a measured and structured way. To develop Science, Technology, Engineering and Mathematics capabilities in building Massive Open Online Courses (MOOC) based applications, adequate design and performance is required to develop a sense of character education values based on children's stories. To develop character education values that although

developed is MOOC based on the framework of understanding that individuals despite designing the ability and skills to shape the identity of technology. In school from home policy, each individual has the opportunity to be trained to develop forms of information and communication technology.

Gal (2018) states that school from home policy, a holistic policy framework is required, namely developing characteristics according to individual needs and needs. For this reason, MOOC with characteristics of C, C++ and Java Script provides opportunities for capabilities and skills that provide opportunities in maintaining the balance and characteristics of each individual that provide an opportunity to move forward according to the characteristics of each data. To develop MOOC applications that provide opportunities to develop adequate learning characteristics.

Utilization STEM Education based MOOC to develop Interactive Website Capabilities

To accommodate the school from home policy, it is necessary to design a MOOC application based on React Native, which is built for the exploration of individual opportunities that provide opportunities to develop websites that are reactive to individual changes. Wolf and Henley (2017) states that the characteristics of each individual, performance is required in developing sustainable character education values. Šmitek (2020) states that content in MOOC applications develops individual character values even if they are created with the STEM Education programs in elementary schools' language coupled with React Native application. School from home needs to be designed MOOC which provides opportunities to develop information and communication technology.



Graph 1: STEM Education in Elementary Schools

The compilation of STEM education in elementary schools makes a role in developing the characteristics of science and technology providing an opportunity to explore with the ability to put forward each individual's skills and abilities to design the characteristic design of the

programming language based on react native compiled with Java Script. To develop a content of character education values required characteristics to compile a compilation of programming languages that provide opportunities to simplify school from home policy.

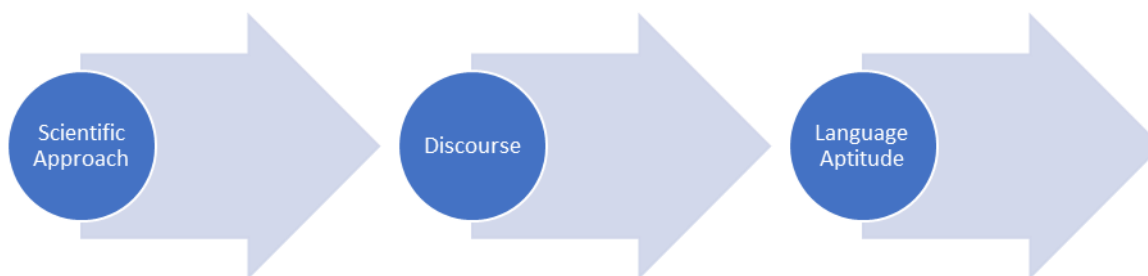
Covid 19 circumstances has put forward the principle of individual ability and independence in creating creative and innovative discourse that provides opportunities to develop individual characteristics related to creative measures. The Covid-19 pandemic has made a policy in the form of school from home, which makes the policy in the world of education change drastically.

MOOC-based on STEM Education in Elementary Schools

Communication between active servers and ratings is an integral part of the interaction of connections between data. Interaction between programming databases is an attempt to develop the skills and skills in developing the MOOC. Hoffman and Stroustrup (2016) states that applications are built on programming languages that are interacted with each other following a wide range of facts designed to interact with each other.

To develop the characteristics of STEM Education, it has the relationship with the steps that exist in the .exe format associated with the STEM Education through language teaching is bound to a single code with the server. Below is a code snippet that illustrates the relationship between the server and the programming application associated with the port of the access point.

It needs even though created by putting forward the capabilities and skills used for programming. To develop distribution skills from interactive databases, each data is designed to be interconnected with each other. In this case, the programmer's skills to develop an application's capabilities are an integral part of programming planning from a MOOC server.\

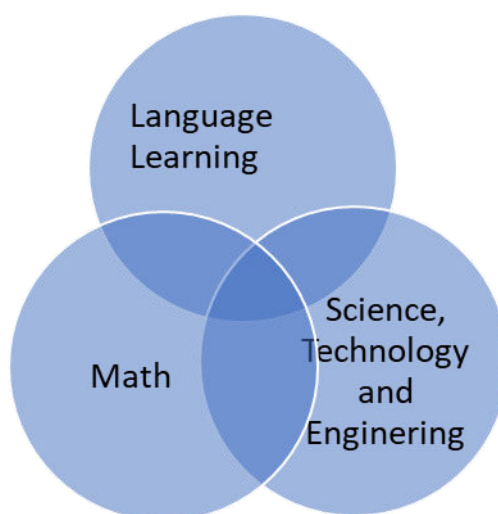


Graph 2: Scientific Approach in Relation With STEM Education

Hoffman and Benton (2016) states that language teaching combined with MOOC is an integral part of the STEM Education. In this case, the skill to develop data and the interconnectedness between the code becomes an inseparable point from the interactive database. To develop this interactive, it is necessary to develop a STEM Education through MOOC based on the interaction between the point server and the kernel which is an integral part of the system.

The STEM Education with interactive MOOC applications in Elementary Schools

Interaction between databases with the ability and skills to develop capabilities in building interactive code based on mobile web using STEM Education. Vancsics, Szatmári and Beszédes (2020) states that STEM Education based on react native applications required performance and data that reflect programming that provides an opportunity to explore databases that provide interaction between individuals with servers and operators.



Graph 3: Integration of Language Learning with STEM

The interaction between databases and neural programming applications is to conduct data organization. The STEM Education programming interactions are an integral part of other Java-based applications. Hoddie and Parder (2020:27) states that data storage optimization skills are an inseparable part of neural programming capabilities. The following are presented STEM Education based on MOOC.

Thus, the existence of STEM Education applications is closely related to neural design capabilities to develop capabilities in building interactions between databases. In this case, the ideal focus that despite being developed is the interaction between STEM Education to build a MOOC application that can be accessed by all parties by prioritizing the principle of ease of data access.

Conclusion and Suggestion

Conclusion

Building an interactive MOOC website is part of an effort to open up jobs for millennials. It is from this effort that the compilation between STEM Education is an integral part of the skill to develop data interactions that opens up opportunities to develop databases containing the steps of developing skills that ultimately are opening up jobs for millennials. Java Scripts are used to develop programming languages that focus on ease of use.

Suggestion

The development of this MOOC application is an effort to keep the teaching learning process going on one side but on the other hand still put forward on the skills and ability to interact easily with the server. Thus, the existence of MOOC applications that are part of the development of abilities and skills to develop character education values. This is what was developed to build an interactive website that prioritizes the combination of databases more easily and interestingly.

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