Literature Review: Development of STEM Learning in Indonesia Based on Variation of Subjects, Media, and Strategy of Study from 2015 to 2019.

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- **Abstract:** In the current development era, economic globalization is changing. Many jobs today have been lost due to automation and new jobs are popping up every day as a result of technological advances. In fact, technological developments also influence the way students learn, relate and interact. Skills in STEM provide a solid foundation for individuals to succeed at the school level and beyond. The global demand for STEM qualifications and skills is currently high and is expected to continue to increase in the future. This literature review is structured to see the development of STEM learning in Indonesia over the last few years, from 2015 to 2019. The visible developments are focused on STEM learning based on variations in the subjects, media, and learning strategy used. This literature review involves 28 articles of STEM field research results at several school levels, from elementary to tertiary level. From the literature search results obtained a score of 14.28% for the application of STEM in Biology subjects, 42.86% in Physics, 14.28% in Chemistry, 3.57% in Mathematics, and 25% in Science. Meanwhile, seen from the STEM learning media, it was found 21.43% for the Model, 14.28% for Modules and Media, 35.71% for the Approach, 3.57% for Student Worksheets (LKS), Student Books, Assessment, and Practical Design. And when viewed from the strategyt of learning, the results obtained were 10.71% for integrated PjBL, 7.14% for PBL, and 3.57% for integrated Blended learning. The analysis shows that there is still little application of STEM learning in Indonesia so that in the future the application of STEM in Indonesia still needs to be developed.

- **Keywords:** STEM learning media, tertiary level, economic globalization.