

WEBINAR IMPLEMENTASI PEMBELAJARAN DENGAN FRAME WORK STEM (SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS) DAN PENILAIANNYA DI SMP

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ABSTRACT

Along with technological developments in the 21st century, improving the quality of human resources who have the required competencies is an urgent matter. The 21st century competencies that need to be mastered are creativity, critical thinking, communication, and collaboration, which are trained through learning. Although the 2013 curriculum has been directed to practice mastery of these competencies, the learning carried out is still fragmented in each subject, so the results are not optimal. To optimize the problem-solving ability of life which is the estuary of the 21st century competencies, learning with the STEM (Science, Technology, Engineering, and Mathematics) framework that is integrated with the assessment is one solution, but this integration of learning and assessment does not yet exist. Various studies related to STEM have been carried out, but this information has not yet reached the teacher. In this regard, a vehicle for disseminating research is needed, by conducting webinars with participants from junior high school mathematics and science teachers throughout Indonesia.

This community service uses a training approach in the form of a webinar. There were 214 webinar participants, out of 500 targeted people, who came from math and science teachers from all over Indonesia. In training activities, the servants conduct webinars (online seminars). This training activity is followed by evaluation.

This community service activity in the form of a webinar was held on Saturday, August 28, 2021. The webinar was filled with two speakers, who discussed the implementation of learning in the first session and the implementation of assessment with the STEM framework in the second session. In the evaluation of activities carried out at the end of the session by participants by filling out Google Forms, the dominant answers, namely STEM participants have a great opportunity to be implemented, the existence of this webinar, being enthusiastic about implementing STEM in the classroom, various challenges in implementing online learning with the STEM framework, previously 97% of participants have never applied learning with the STEM framework. Some research and service opportunities that can be carried out based on this activity are the unavailability of mapping of subject-sharing materials to carry out learning with the STEM framework, the need for assistance in the process of implementing learning with the STEM framework, and the need for training in the development of learning tools with the STEM framework.

Kata Kunci: STEM, community service activity, webinar, learning and assessment