

Development of Virtual Laboratory IPA Inquiry Approach to Develop Thinking Skill of Junior High School Students

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ABSTRACT

The purpose of this activity is to: (1) disseminate the results of research from the devotees team about the development of virtual laboratory IPA inquiry learning approach to develop student thinking skill; (2) improving teachers' skills in applying information and communication technology by creating interactive computer-assisted teaching materials; (3) improving problem solving skills scientifically; (4) improving teachers' creativity in developing interactive materials oriented development of thinking skill. The target audience of this activity is 25 teachers of MGMP IPA SMP Magelang District. This activity is conducted in three stages, covering the stage of theoretical training, practical training stage, and evaluation phase. The methods used are: lectures, discussions, practices, and workshops

The results of the activities show that in general the PPM activities have been successful in achieving all the targets of activities. Most participants have also been able to arrange the steps of scientific activities to guide students solve problems inquiry using virtual laboratory. In addition, the product utilization of virtual laboratory IPA developed also shows most of the participants have been able to develop IPA teaching materials in the form of blog formatted as a module inquiry learning approach that accompanied by virtual laboratory and video, and some blog products that utilize the virtual laboratory by the participants already load development of thinking skills.

Kata Kunci: inquiry learning, science, thinking skill