

Assistance for High School Biology Teachers in Developing Digital Teaching Materials

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ABSTRACT

To keep up with technological developments, the learning process is necessary. Converting classroom instruction to digital has created a new alternative method of learning. Therefore, teachers must also be proficient in creating digital teaching materials to aid in the teaching and learning process. The focus of this community service activity is the result of teacher responses to teacher needs for digital teaching materials preparation. Teachers who involve their students in learning choose video teaching materials that contain procedural steps in biology practical material as their digital teaching materials. Four high school biology teachers and several students from Yogyakarta participated in the development of the learning video. The mentoring process was carried out in the FMIPA UNY Biology Education Department's audio-visual laboratory, and the picture taking process was carried out at each school. The video development training process begins with a discussion about the biological material that will be designed to be recorded, followed by the preparation of the video storyline, the introduction to recording equipment, the video recording process, the video editing process, and the final editing of the learning video. The training lasted 40 hours and took place between May and August of 2023. This digital teaching material development training resulted in the creation of three videos on the material Catalase Enzyme Test, Photosynthesis Results Test, and Food Content Test. Videos have been used for learning until now, but only by teachers who produce videos in their respective schools.

Kata Kunci: Biology, Digital Teaching Materials, Instructional Media Video, Senior High School.