

Training of Hand Wash Soap Production from Silver Nanoparticles for Senior High School Physics Teachers at MGMP Gunungkidul Yogyakarta

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ABSTRACT

This community service activity (PPM) aimed to train senior high school physics teachers representing the MGMP of Gunungkidul Regency, Yogyakarta Special Region (DIY) to make hand wash soap with an additional compound of silver nanoparticles (AgNP). This training is expected to increase the knowledge and skills of physics teachers in synthesizing nanomaterials, i.e. AgNPs, and their use in making hand wash. These insights and skills can later be transferred to students in their respective schools, in Gunungkidul district. The PPM team carried out the training, which included two activities, namely, 1) a daring activity that contained material presentations on the technology of making hand soap and 2) the practice of making AgNPs and making hand soap added with AgNPs. The results from this PPM activity were that the participants gained knowledge about the concrete steps of making AgNP and making hand soap with AgNPs as additives.

Kata Kunci: *hand wash, AgNPs, physics teacher*