

TRAINING ON THE PREPARATION AND ANALYSIS OF PHYSICS QUESTIONS FOR TEACHERS IN YOGYAKARTA

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ABSTRACT

One of the important competencies that teachers must have is the ability to measure students' competency achievements. However, it is still found that many physics teachers are unable to develop test instruments to measure students' competence. This difficulty is because the teacher's knowledge and skills in analyzing test items are still minimal. The impact is that the test questions used to measure learning outcomes in schools do not reflect students' true abilities so they cannot be used as a continuation in learning. Physics teachers in DI Yogyakarta also experienced similar difficulties. Therefore, this Lecturer Activities Off Campus activity is intended to provide training in the preparation and analysis of physics questions to physics teachers in DI Yogyakarta.

Training activities were carried out by means of information discussions in 6 meetings regarding the preparation of question items and analysis techniques using modern test theory. The success of this activity is evaluated using test techniques (pretest and posttest) to measure increased understanding of the material.

The output targets of this activity include the establishment of collaboration between the FMIPA UNY Physics Education Study Program and the MAN DIY Physics MGMP which was ratified in one Collaboration document. The next output is at least one scientific article published in a nationally accredited community service journal of at least SINTA 4 with submitted status in the year of submission.

Kata Kunci: *item analysis, modern test theory*