

# TRAINING ON THE PREPARATION OF ASSESSMENT INSTRUMENTS AND ITS ANALYSIS USING THE MODERN TEST THEORY APPROACH (IRT) FOR ELEMENTARY SCHOOL TEACHERS IN INDONESIA AND MALAYSIA

by Edi Istiyono, Tajularipin Sulaiman, Widiastuti, Risky Setiawan

## ABSTRACT

The development of technology and science in this century is also inseparable from the era of the industrial revolution 4.0. As time goes by, technological developments are increasingly rapid and advanced so that human resources (HR) need to improve their quality. One of the ways to improve the quality of human resources is through education. This is supported by the Education Act 1996 which explains that education is an ongoing effort to develop a holistic and balanced individual's potential. Therefore, this education can be started from an early age or Basic Education. Basic education is the main and important foundation in the world of education. So that every teacher is to be required to have 4 (four) competencies, there are: pedagogic competence, professional competence, social competence, and personality competence. In accordance with Government Regulation Number 19 of 2005 about Teachers and Lecturers. With these 4 (four) competencies, it can help teachers improve the quality of students, because the teacher is one of the most important components in education.

In line with that, teachers have a very important role in educating. In Government Regulation Number 74 of 2008 Chapter 1 article 1 paragraph 1 explains that "Teachers are professional educators with the main task of educating, teaching, guiding, directing, training, assessing, and evaluating students in early childhood education through formal education, basic education, and Secondary education." So, the teacher's role in educating can be as a facilitator, learning resource, learning manager, mentor, learning designer, motivator, evaluator, and assessor. One of the teachers who pay attention to this role is the elementary school teacher. The role of the elementary school teacher is manifested in the classroom.

This PkM KI activity is in line with the 2nd, 3rd and 6th Main Performance Indicators of higher education. In this activity, students are involved in the form of school service with the hope that students have experience in activities outside the campus as a manifestation of the MBKM policy. The MBKM policy that has been launched by the Ministry of Education, Culture, Research and Technology is a policy that guarantees students in determining their choice of learning patterns so that they can be more agile in dealing with various changes that occur. The involvement of students in this activity is in accordance with the Main Performance Indicators of the 2nd higher education institution, so students gain experience not only outside campus but students are also given the opportunity to gain experience outside campus. In addition, in accordance with the 3rd and 6th Main Performance Indicators of universities, this PkM KI activity is also expected to improve the competence and communication skills of the Service Team, lecturers and students of UNY Indonesia, lecturers and students have activities outside the campus in terms of sharing knowledge, improving quality and establishing partnerships with UPM Malaysia as a partner.

This training was able to provide additional knowledge and skills to teachers in Yogyakarta Indonesia and Selangor Malaysia in preparing HOTS questions and analyzing them using the IRT approach. In addition, the teachers gained additional knowledge related to the principles of assessment, preparation of grids, preparation of items, and item analysis.

Kata Kunci: *Training, assessment instrument, CTT and IRT*