

**The Development of Innovative Chemistry Module
with Integration of Experiment on The
Teaching Buffer Solution**

Evina Nelly Natalia Sihite (Reg. Number 4113131021)

ABSTRACT

The development of Innovative chemistry module with integration of experiment on the teaching Buffer Solution will be explained in this research. This research is aimed to arranged the standardized innovative chemistry module with integration of experiment and the module was standardized by lecturer, teacher, and student. This research was conducted in five schools; those are SMA Negeri 2 Medan, SMA Negeri 3 Medan, SMA Negeri 11 Medan, SMA Swasta Methodist 2 Medan, and SMA Swasta Raksana Medan. The research began with analysis of chemistry guide practicum textbooks usually used in schools especially on topic buffer solution by teacher from those schools. Furthermore, research continued with arranged the innovative chemistry module with integration of experiment on topic buffer solution, thus the module will standardized. The result of this research showed that the average score of analysis guide practicum textbooks is 76.32%. It means that the chemistry guide practicum textbooks that usually use in schools is quite good but need some revision for some criteria (content, extension, depth, design, and language). The result evaluation innovative chemistry module with integration of experiment on topic buffer solution, researcher got the average of all components by Chemistry Lecturers were 3.38, Chemistry Teachers were 3.72, and students were 3.74. The total average of evaluation for innovative chemistry module with integration of experiment was 3.62. It means that the innovative chemistry module with integration of experiment is valid and did not to be revised. So, the innovative chemistry module with integration of experiment was ready to be used as a learning media on the teaching of Buffer Solution in Senior High School.