ANALYSIS OF STUDENTS’ METACOGNITIVE SKILL IN SOLVING MATHEMATICS PROBLEM ON SUBJECT CALCULUS II AT SECOND SEMESTER STATE UNIVERSITY OF MEDAN

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ABSTRACT

The type of this research is descriptive research that used mixed method. The objective of this research is 1) to know the relationship of metacognitive skill with learning outcomes, 2) to know the difference of metacognitive skill in solving mathematics problem of SNMPTN, SBMPTN, and also UMBPTN Students, and 3) to describe the level metacognition of SNMPTN, SBMPTN, and UMBPTN Students in mathematical problem solving. This research was held in second semester students’ of mathematics students State University of Medan. The subject of this research is 12 UMBPTN Students, 12 SBMPTN Students and also 12 SNMPTN Students. Object of this research is mathematics students’ metacognitive skill in mathematics problems. Instruments of this research is questionnaire who adapted from Metacognitive Awareness Inventory, test has been validated by expert and interview. The result of this research is 1) For all indicator of metacognitive skill got $r = 0.66$ for UMBPTN Students and the correlation of metacognitive skill and learning outcomes is strong. For SBMPTN Students is 0.75 and the correlation of metacognition skill and learning outcomes is strong, and for SNMPTN students the correlation of metacognitive skill and learning outcomes is 0. 403 and the category is medium. 2) In SBMPTN Students the metacognitive skill average score is 70.59% in medium, In SNMPTN Students the average score is 73.61% in medium category, In UMBPTN students the average score is 64% is Low category. 3) The level metacognition of SBMPTN students in high Category has reflective level metacognition, in medium category has strategic use and for low category has aware use. For SNMPTN students, the level metacognition of high category is Strategic Use and for medium category is Strategic use and for low category is aware use. For UMBPTN Students, the level metacognition of high category is Strategic Use, and medium also Strategic use and low category is aware use.

Keywords: Metacognition, metacognitive Skill, Metacognitive Level, Problem Solving, Learning outcomes.