
Students' Perceptions of The Mathematics Reinforcement Workshop As An Initiative To Improve Achievement In The Engineering Mathematics 2 Course At Politeknik Ibrahim Sultan

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Abstract

Engineering Mathematics 2 is one of the courses offered to students taking Electrical Engineering Diploma (JKE) and Mechanical Engineering Diploma (JKM) at Politeknik Ibrahim Sultan. However, students fail the Engineering Mathematics 2 (DBM 20023) course every semester. The failure rate in this Mathematics 2 course is higher than in other courses. This study aimed to identify students' perceptions of the Mathematics Reinforcement Workshop as an initiative to improve student achievement in the Engineering Mathematics 2 (DBM 20023) course. A questionnaire (Google Form) was used as a research instrument. This study's sample size was 180 students who took the Engineering Mathematics 2 course in session 2 of 2023/2024. This study uses descriptive statistics (frequency, percentage, mean score, and standard deviation) to measure students' perceptions of the Mathematics Reinforcement Workshop as an initiative to improve the achievement of DBM 20023 course. Data was analyzed using SPSS software. The findings of this study show that the respondents agree and give a positive perception towards implementing the Reinforcement Workshop for Engineering Mathematics course 2 (DBM 20023). Positive feedback on the speakers, program implementation, and the program's impact on the overall high level of satisfaction among participants demonstrate that the program was well implemented and beneficial. The Mathematics Reinforcement Workshop for the DBM 20023 course for session 2 2023/2024 improves the graduation rates of Engineering Mathematics 2 students. The student failure rate decreased compared to semester 1 2023/2024. Therefore, this Mathematics Reinforcement Workshop can be used as an alternative by Mathematics lecturers as an effective teaching and learning reinforcement activity for students who have a weak level of mathematics proficiency

Keywords : *Mathematics Reinforcement Workshop; Engineering Mathematics 2 ;student*
