INTISARI

Penelitian "Analisis *Awareness* Mahasiswa Teknik Terhadap *Green Building* pada Lima Program Studi di Fakultas Teknik Universitas Gadjah Mada" dilatarbelakangi urgensi solusi inovatif dalam sektor konstruksi yang menjadi penyumbang emisi karbon dioksida global. Konsep *green building* menawarkan pendekatan berkelanjutan, dan UGM, sebagai *green campus* dengan gedung bersertifikasi SGLC dan ERIC, berperan penting dalam membentuk insinyur yang sadar lingkungan. Penelitian ini bertujuan mengukur tingkat *awareness* mahasiswa terhadap *green building*, termasuk konsep dasar, kriteria, persepsi manfaat, dan persepsi hambatan, serta mengetahui adakah perbedaan kesadaran antar lima program studi (Teknik Sipil, Teknik Infrastruktur Lingkungan, Teknik Sumber Daya Air, Arsitektur, dan Teknik Fisika). Analisis juga dilakukan terhadap pengaruh tahun ajaran dan frekuensi paparan materi keberlanjutan terhadap kesadaran ini. Analisis juga dilakukan terhadap pengaruh tahun ajaran dan frekuensi paparan materi keberlanjutan terhadap kesadaran ini.

Metode survei dengan kuesioner digunakan pada 257 mahasiswa teknik yang dipilih secara acak dan proposional. Kuesioner diuji validitas dan reliabilitasnya terlebih dahulu. Analisis data meliputi statistik deskriptif dan inferensial, menggunakan uji Kruskal-Wallis dan koefisien korelasi *Spearman*.

Hasil penelitian menunjukkan bahwa mahasiswa telah memiliki kesadaran yang baik tentang konsep dasar dan manfaat *green building*, namun perlu peningkatan kesadaran tentang standar dan regulasi. Terdapat perbedaan kesadaran yang signifikan antara program studi, terutama dalam hal konsep dasar dan kriteria *green building*. Semakin sering mahasiswa terpapar materi keberlanjutan, semakin tinggi kesadaran mereka tentang *green building*. Hasil ini dapat menjadi landasan bagi Fakultas Teknik UGM dan institusi pendidikan tinggi lainnya untuk merancang strategi pendidikan yang lebih efektif dalam mempersiapkan generasi insinyur yang berwawasan lingkungan.

Kata kunci: *green building*, *awareness*, mahasiswa teknik, *green campus*, keberlanjutan

ABSTRACT

The research "Analysis of Engineering Students' Awareness of Green Building at the Faculty of Engineering, Universitas Gadjah Mada (Case Study: Five Study Programs in the Faculty of Engineering) " is motivated by the urgency for innovative solutions in the construction sector, which is a significant contributor to global carbon dioxide emissions. The green building concept offers a sustainable approach, and UGM, as a green campus with certified SGLC and ERIC buildings, plays a crucial role in shaping environmentally conscious engineers. This study aims to measure the level of student awareness of green building, including basic concepts, criteria, perceived benefits, and perceived barriers, as well as to determine whether there are differences in awareness among five study programs (Civil Engineering, Environmental Infrastructure Engineering, Water Resources Engineering, Architecture, and Engineering Physics). Analysis was also conducted on the effect of academic year and frequency of exposure to sustainability material on this awareness.

A survey method with a questionnaire was used on 257 engineering students selected randomly and proportionally. The questionnaire was first tested for validity and reliability. Data analysis includes descriptive and inferential statistics, using the Kruskal-Wallis test and Spearman correlation coefficient.

The results showed that students already have a good awareness of the basic concepts and benefits of green building, but there is a need to increase awareness of standards and regulations. There are significant differences in awareness between study programs, especially in terms of basic concepts and green building criteria. The more often students are exposed to sustainability material, the higher their awareness of green building. These results can be a foundation for the Faculty of Engineering, UGM, and other higher education institutions to design more effective educational strategies in preparing a generation of environmentally conscious engineers.

Keywords: *green building*, *awareness*, engineering students, *green campus*, sustainability