ABSTRAK

Christy Gabriella. *Evaluasi Kebutuhan Lahan Parkir (Studi Kasus: Fakultas Teknik Universitas Negeri Medan)*. Skripsi. Fakultas Teknik Universitas Negeri Medan. 2025

Universitas Negeri Medan (UNIMED) merupakan salah satu perguruan tinggi negeri yang berkembang pesat di wilayah Sumatera Utara. seiring dengan pertumbuhan tersebut, fasilitas parkir di lingkungan Kampus UNIMED menghadapi berbagai tantangan. Kebutuhan lahan parkir yang tidak memenuhi menimbulkan permasalahan yang sering terjadi seperti parkir sembarangan, tidak tertib dalam hal memarkirkan kendaraannyaa. Salah satu permasalahan utama adalah keterbatasan kapasitas lahan parkir yang tidak sebanding dengan jumlah kendaraan yang masuk ke area kampus setiap harinya. Akibatnya, tidak jarang terjadi penumpukan kendaraan, parkir sembarangan, dan kemacetan di beberapa titik, terutama pada jam-jam sibuk seperti pagi dan siang hari. Penelitian ini bertujuan untuk mengevaluasi kondisi lahan parkir yang tersedia, mengetahui kapasitas lahan parkir Fakultas Teknik, memberikan solusi tentang pelayanan parkir sepeda motor di lingkungan Fakultas Teknik UNIMED. Perhitungan kebutuhan lahan parkir dilakukan dengan survey langsung dilapangan dengan menentukan karakteristik parkir seperti volume parkir, tingkat pergantian parkir, durasi parkir dan kebutuhan ruang parkir. Hasil penelitian yang dilakukan selama 2 hari menunjukkan bahwa kapasitas daya tampung untuk parkiran sepeda motor pada parkiran FT UNIMED sebanyak 112,66 SRP sepeda motor dengan jumlah volume kendaraan tertinggi terjadi pada hari Selasa, 3 Juni 2025 yaitu sebanyak 317 kendaraan sepeda motor. Berdasarkan hasil evaluasi Kebutuhan Lahan Parkir FT UNIMED diperlukan 475,5 m2 agar dapat menampung 317 kendaraan sepeda motor maka untuk itu diperlukannya penambahan 204 SRP dengan luas lahan parkir sebanyak 306,74 m^2.

Kata kunci : Kebutuhan Lahan Parkir, Standar Ruang Parkir (SRP), Kapasitas Parkir.

ABSTRACK

Christy Gabriella. ***Evaluation of Parking Lot Needs (Case Study: Faculty of Engineering, State University of Medan). Thesis. Faculty of Engineering, State University of Medan. 2025***

Medan State University (UNIMED) is one of the rapidly growing state universities in North Sumatra. Along with this growth, parking facilities in the UNIMED campus environment face various challenges. The need for parking spaces that are not met causes frequent problems such as haphazard parking, unruly parking of vehicles. One of the main problems is the limited capacity of the parking lot that is not comparable to the number of vehicles entering the campus area every day. As a result, it is not uncommon for vehicle accumulation, haphazard parking, and congestion to occur at several points, especially during peak hours such as morning and afternoon. This study aims to evaluate the condition of the available parking lot, determine the capacity of the Faculty of Engineering parking lot, provide solutions regarding motorcycle parking services in the UNIMED Faculty of Engineering environment. The calculation of parking space needs is carried out by direct survey in the field by determining parking characteristics such as parking volume, parking turnover rate, parking duration and parking space requirements. The results of the study conducted for 2 days showed that the capacity for motorcycle parking in the FT UNIMED parking lot was 112,506 motorcycle SRP with the highest vehicle volume occurring on Tuesday, June 3, 2025, namely 317 motorcycles. Based on the results of the evaluation of the FT UNIMED Parking Lot Needs, 475.5 m^2 is needed to accommodate 317 motorcycles, therefore an additional 204 SRP are needed with a parking area of 306,74 m^2.

Keywords: Parking Space Requirements, Parking Space Standards (SRP), Parking Capacity.