PERFORMANCE STUDY OF THE PASAR KABUH APILL INTERSECTION, JOMBANG REGENCY USING THE 2023 PKJI METHOD

NAME : DWI PURWANTO
NIM : 202322201011

ABSTRAC

This study analyzes the performance of the APILL intersection in the Jombang Kabuh Pasar intersection area using the Indonesian road capacity guideline method (PKJI 2023). The focus of the study is to analyze intersection capacity, degree of saturation, average delay, queue length, and level of service at the APILL intersection. Analysis was carried out by collecting intersection geometric data, traffic volume, signal cycle time, and signal phase. It is hoped that the results of this study will provide recommendations for improving the performance of the APILL intersection, such as adjusting signal cycle times, optimizing signal phases, increasing intersection capacity, and more effective traffic management, to increase transportation efficiency in the area and reduce traffic congestion.

Keywords : APILL Intersection, PKJI, Intersection capacity, Intersection performance.

KAJIAN KINERJA SIMPANG APILL
PASAR KABUH KABUPATEN JOMBANG
MENGGUNAKAN METODE PKJI 2023

Nama : DWI PURWANTO

NIM : 202322201011

ABSTRAK

Kajian ini menganalisis kinerja simpang APILL di wilayah simpang pasar kabuh jombang menggunakan metode pedoman kapasitas jalan Indonesia (PKJI 2023). Fokus kajian adalah menganalisis kapasitas simpang, derajat kejenuhan, tundaan rata-rata, panjang antrian, dan tingkat pelayanan simpang APILL. Analisis dilakukan dengan mengumpulkan data geometrik simpang, volume lalu lintas, waktu siklus sinyal, dan fase sinyal. Hasil kajian ini di harapkan dapat memberikan rekomendasi perbaikan kinerja simpang APILL, seperti penyesuaian waktu siklus sinyal, optimasi fase sinyal, peningkatan kapasitas simpang, dan pemgolaan lalu lintas yang lebih efektif, untuk meningkatkan efisiensi transportasi di wilayah tersebut dan mengurangi kemacetan lalu lintas.

Kata kunci : simpang APILL, PKJI, kapasitas simpang, kinerja simpang.