

INTISARI

Lokasi yang akan dilakukan penelitian adalah Jalan Gajah Mada, Pakualaman, Kota Yogyakarta. Pada ruas jalan tersebut terdapat aktivitas perhotelan dan pertokoan pada sisi kiri dan kanan jalan, oleh sebab itu kebutuhan akan kendaraan parkir cukup tinggi serta ruang parkir yang kurang mendukung sehingga tidak seimbang. Maka diperlukan penelitian untuk mengetahui pengaruh parkir di badan jalan terhadap arus lalu lintas serta kinerja ruas jalan pada ruas Jalan Gajah Mada.

Pelaksanaan survei dilaksanakan selama 3 hari dengan lamanya survei 5 jam perhari, serta dipilih hari biasa dan akhir pekan yaitu Hari Senin (12 April 2021), Kamis (15 April 2021), dan Sabtu (10 April 2021). Teknik pengumpulan data meliputi data survei volume lalu lintas, kecepatan rata-rata, akumulasi parkir, volume parkir, tingkat pergantian parkir, indeks parkir, kapasitas ruas jalan, nilai V/C rasio dan kepadatan lalu lintas. Data yang didapat dianalisa berdasarkan pedoman Manual Kapasitas Jalan Indonesia (MKJI) 1997.

Berdasarkan data yang dianalisis, didapat volume parkir maksimal dengan total 100 kendaraan, akumulasi parkir maksimal sebesar 17 kendaraan, dan kecepatan rata-rata kendaraan terlama sebesar 22.03 km/jam. Selain itu juga terjadi penurunan kinerja ruas jalan Gajah Mada saat jam-jam tertentu, yaitu pada Hari Senin sore hari dimana volume kendaraan mendekati 1500 smp/jam, dengan nilai V/C rasio hingga 0.65 yang termasuk tingkat pelayanan jalan level C menurut MKJI 1997. Kondisi tersebut menandakan arus lalu lintas di ruas Jalan Gajah Mada mendekati tidak stabil.

Kata Kunci : MKJI 1997, Parkir, dan Nilai V/C rasio

ABSTRAC

The location to be analyzed is Gajah Mada Street, Pakualaman, Yogyakarta City. On these roads there activities of hotels and shops on the left and right sides of the road, therefore the need for parking vehicles is quite high and parking spaces are less supportive so that it is not balanced. Then needed research to determine the effect of on-street parking on traffic flow and road performance on Gajah Mada street.

The survey was carried out for 3 days with a survey duration of 5 hours per day, and selected weekdays and weekends, namely Monday (April 12th, 2021), Thursday (April 15th, 2021), and Saturday (April 10th, 2021). Data collection techniques include survey data on traffic volume, average speed, parking accumulation, parking volume, parking turnover rate, parking index, road capacity, V/C ratio value and traffic density. The data obtained were analyzed based on the 1997 Indonesian Road Capacity Manual (MKJI) guidelines.

Based on the analyzed, the maximum parking volume is 100 vehicles, the maximum parking accumulation is 17 vehicles, and the longest average vehicle speed is 22.03 km/hour. In addition, there is also a decrease in the performance of the Gajah Mada road at certain hours, namely on Monday afternoons where the vehicle volume approaches 1500 pcu/hour, with a V/C ratio value of up to 0.65 which includes the level C road service level according to the 1997 MKJI. This condition indicates that the traffic flow on Jalan Gajah Mada is approaching unstable.

Keyword : *MKJI 1997, parking, and ratio v/c value*