

REGULATION OF THE NETWORK OF PUBLIC TRANSPORT ROUTES WHICH ENTERS THE CITY OF ANDIJAN

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Annotation

The current system of public transport financing will systematically update the traffic structure and create opportunities to attract private investments to the sector, fully satisfy the needs of the population for high-quality and convenient passenger transportation services, introduce market principles in the sector, in particular, the financing system and tariff, a network of directions designed to create an attractive business environment for the private sector by improving its policy.

Keywords

city, bus, road, passenger, route, interval, flow, analysis, transport, street, interval, time route, tracking, integration.

Public transport is an important social service that makes the far near, saves money and time, and improves the quality of life. More than 10 million passengers use this service in our country every day. In order to improve the quality of passenger transportation, it was stated in the address of the head of our state that 2 thousand more buses will be brought in 2023. However, no matter how many buses are brought, if the current work system in the local transport departments and bus parks is not changed, it will not be possible to provide services that meet the needs of the population. New housing, schools, kindergartens, hospitals and other institutions are being built for residents in all regions. However, the transport sector lags behind these changes and does not meet the requirements of today's development. In particular, a public transport development plan has not been developed in some regional centers. Buses are attached to operate during the "most profitable" time of the day, as transport companies are bound to fulfill the daily revenue plan. The rest of the time, passengers have to wait a long time or take a taxi. Public transport should be convenient for residents and attractive for entrepreneurs[1].

Today, more than 500,000 people live in the city of Andijan, and the number of people coming to the city with various jobs from the districts will increase, which will increase the need for public

transport. Since 2021, public transport service has been provided within the city. Due to the unavailability of alternative public transport options in the city, bus movements takes the main load. Nowadays, bus traffic for routes 222, 394, 75 and 1 have been established and 22 buses are in service. However, 18-20 buses per day run along the route due to various reasons and bus malfunctions. A number of state organizations, educational institutions, hospitals, entertainment centers, cultural and recreational parks are located on the route. In particular, Andijan regional government, Andijan State Medical Institute, Furqat Children's Hospital, Regional Oncology Center, Uzbeqim entertainment and shopping center and other important places. Taking into account the large number of visitors to these institutions, it is important to provide high-quality service to residents, save their time, and ensure that residents safely reach their destination. Also, it is appropriate to analyze the route interval, identify and eliminate deficiencies.

Efficient and reliable public transport systems are essential for the convenience of urban residents. In the city of Andijan, in particular, the analysis of bus intervals on route 1 is important in improving the overall efficiency and effectiveness of the public transport system. This analysis enables transportation authorities, planners, and operators to identify and address issues related to service reliability, schedule adherence, passenger satisfaction, and operational efficiency. By understanding the importance of analyzing bus route spacing in Andijan, we can pave the way for a

better transportation experience for residents and visitors[2].



2-picture. The network of bus routes which enters the city

One of the important aspects of bus route interval analysis is the assessment of service reliability. The consistency and predictability of bus intervals directly affects passenger confidence and satisfaction. Interval analysis can help detect irregularities such as long waiting times or bus congestion. By solving these problems, transport authorities can improve the reliability of bus services and provide a more convenient and reliable form of transport for passengers.

In addition, the analysis of bus intervals makes it possible to assess the adherence to the schedule. Deviating from the time slot can cause delays, overcrowding and inconvenience for passengers. By carefully monitoring intervals and comparing them to planned times, transportation planners can identify areas where adjustments are needed. This analysis helps to optimize bus schedules, ensure that buses arrive at stops as scheduled, minimize waiting times, and increase passenger satisfaction[3].

By understanding changes in bus intervals, transport authorities can make reasoned decisions about fleet management, bus placement and resource allocation. This allows them to optimize the number of buses on a route, adjust frequencies according to passengers demand and reduce unnecessary operating costs. This, in turn, leads to a more efficient and sustainable public transport system, which benefits both transport providers and passengers.

Bus route interval analysis also provides information on passenger satisfaction. By studying the intervals, transportation agencies can identify peak demand hours and allocate resources accordingly. This ensures that buses run when and where they are most needed, reducing congestion and improve the overall passenger experience. Satisfied commuters are more likely to use public transport, which leads to reduced traffic congestion, reduce impact on environment and increase social and economic benefits for the city.

Buses are used in short-distance trips in the central areas of the city as a parallel addition to the metro, tram and trolleybus routes, that is, in order to further fill their routes. In places where there are no other types of public transport or in placwhere the flow of passengers is low, bus route service is organized independently; bus service has a special place in establishing passenger connections between the city and the suburbs. One bus lane in one direction has the ability to serve 5-7 thousand passengers per hour, and 10 thousand passengers per hour in parallel lane movements. [4]

Buses in bus palaces are made up from different components. They differ from each other in overall dimensions, capacity, type of engine and other features. The correct selection of buses for the transportation of passengers on routes has a great impact on the quality of public transport services and the efficient use of rolling stock, as well as traffic safety. The capacity of buses should be selected based on the capacity of the passenger flow, its distribution in terms of time and length of the route, and road conditions. The use of high-capacity buses when the passenger flow capacity is low leads to increased bus service intervals and, as a result, passengers spend a lot of time on waiting for buses.

Movement interval is the time between buses passing a certain point of the bus route. The value of the movement interval on inner-city routes should not exceed 20 minutes.

In conclusion, the analysis of the bus route interval in Andijan city is important in improving the public transport system. By assessing service reliability, schedule adherence, operational efficiency and passenger satisfaction, transport authorities can make data-driven decisions to improve bus service quality and efficiency. This analysis paves the way for a more efficient, reliable and passenger-oriented public transport system, contributing to the comprehensive development and ease of living of the city of Andijan [5].

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