

Title: Requirements in the provision of pedestrian crossing facilities in urban area a study in Johor Bahru Central Business District

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Abstract :

Over the last few years there are growing interest among the society and authorities in the improvement of pedestrian facilities in the urban area. One of the important elements of pedestrianisation is the crossing facility. At least 53% of pedestrian casualties in this country occur when pedestrian in the act of crossing the road. It is essential therefore, to improve both safety and amenity for pedestrians in crossing the roads. The study highlighted the criteria and requirements in the provision of pedestrian crossing facilities in an urban area. The applicability and suitability of the Malaysian practices and guidelines in the provision of pedestrian crossing facilities is discussed. To examine the effectiveness of the crossing facilities provided, volumes of pedestrians on formal crossing facilities and at random crossing points were measured. The study also focused on the pedestrian crossing times on different types of crossing facility, i.e. footbridge, traffic signal controlled and random crossing points. In addition, pedestrian delays at random crossing points and pedestrians perceptions of the crossing facilities provided were analysed. The study is intended as an aid for local authorities, agencies and professionals involved in the provision of pedestrian crossing facility to understand the issues that need to be considered in the provision of pedestrian crossing facilities to improve the current crossing conditions. Urban areas should be provided with a high standard of crossing facilities, recognising the vulnerability of all pedestrians and special needs of the elderly and people with disabilities. These include the provision of ramps instead of stairs, tactile surfacing at the points of pedestrian crossings, audible signals and dropped kerbs. This is to ensure that the provided pedestrian crossing facilities would satisfy pedestrians needs and demand as well as assisting them to cross the road safely.