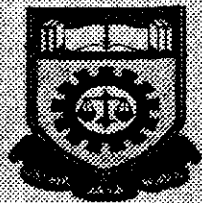


**ASYNCHRONOUS TRANSFER MODE  
(MOBILITY IN WIRELESS ATM)**

Thesis presented in partial fulfillment for the award of the  
Bachelor in Electrical Engineering of INSTITUT  
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## **ABSTRACT**

Mobility is importance features in future broadband technology it can make a new era of the information technology, it is also parallel to our vision is now invited people to know and love Information Technology. So Mobility is one of branches that can up bring up this technology to be more excited. In order to support such mobility for the broad band data especially (ATM), we need to look at in many aspect and entities on current data communication which reflect to support mobility. So this report is discussing and presenting report on wireless ATM and its simulation by software Network II.5 Release 10.0. The mobility will be described basically on Handoff strategies, location management, and address migration. Mobile station is simulated to access network modelled to communicate from Mobile Station to Base station. ATM Switch which to transfer data (signalling messages) while to completion of hand over process. This to change or updating related entity to initiates hand over process in mobility environment. The ATM Switch is to make network can be connected to the backbone network .So it can be support more widely area. For simulation, network model will be presented where the sources are combination of three mobile stations. This simulation we assume that using wireless radio protocol as Collision. Here we are using collision protocol as radio link and First Come First Serve Protocol as ATM Link.

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## **CHAPTER 1**

### **1.0 INTRODUCTION TO WIRELESS COMMUNICATION**

The ability to communicate with people on the move has evolved remarkably since Guglielmo Marconi first demonstrated radio's ability to provide continuous contact with ship sailing the English channel. That was in 1897, since then new wireless communication method and services has been enthusiastically adopted by people throughout world. Particularly during the past ten year the mobile radio communication industry has grown by orders of magnitude fuelled by digital and Rf circuit fabrication improvements new large -scale circuit integration, and other miniaturization technologies which make Portable radio communication networks. These trends will continue at an even greater pace during the next decade.