

**MEASURING AND ANALYZING THE SIGNAL STRENGTH FOR  
CELCOM GSM (019) AND MAXIS (012) IN UNIVERSITI  
TEKNOLOGI MARA (UiTM) SHAH ALAM CAMPUS**

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## **ABSTRACT**

This research is to study, measure and analyze the signal strength for Celcom GSM (019) and MAXIS (012) in UiTM Shah Alam campus. Measurements and data collection of the signal strength were done using TEMS Investigation equipment provided by Celcom (M) Sdn.Bhd, Kelana Jaya and Maxis. TEMS measures the receive signal strength from the 'Base Transceiver Station (BTS)' in term of ERP (Effective Radiated Power). Global Positioning System (GPS) equipment was used to get the coordinate and elevation of 31 chosen points throughout the campus. For one selected point, measurement was taken in the morning, afternoon, evening and night. Data analysis includes comparison between signal strength and position, time, elevation and distance from base station. Some recommendations are given to improve the radio coverage in UiTM area.