

UNIVERSITI TEKNOLOGI MARA

TECHNICAL REPORT

**SELECTION OF THE BEST MOBILE DATA PLAN USING SIMPLIFIED
FUZZY TOPSIS METHOD**

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IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL

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ABSTRACT

Nowadays, mobile data plan is the most important thing to the people who use the smartphone gadget. Deciding the most suitable mobile data plan will help the user get the best service for internet. Most of the company such as Maxis, Celcom, Digi and U mobile introduce many kind of mobile data plans. The users can choose the best mobile data plan for their smartphone. With these mobile data plans, FSKM students are facing the difficulties in choosing the best mobile data plan for them. This are because of their limitation in financing and coverage mobile plan is slow in the certain place.

Hence, this research is to identified the best mobile data plan in terms of cost, flexibility and service that provided by the popular companies in Malaysia. In this research, the criteria that investigated are price, flexibility which is the contract length of the plan and service which is the amount of GB (Gigabytes) of the plan offer by the company. All the criteria evaluated using the Simplified Fuzzy TOPSIS. This method is helping the students to select the best mobile data plan based on the criteria. The mobile data plans will be rank according to the best mobile data. All the data gathered from the questionnaire that has been distributed to FSKM students. Forty questionnaire had been distribute to the FSKM students. From the data, the weightage normalized and distance measurement are use in order calculate the result. Based on the Simplified Fuzzy TOPSIS, the research finding that the highest alternative goes to U Mobile.