Today, smoking behaviour are not only done by adults men, but also done by adults women, include children. Since the phenomenon that happened right now were the mushrooming smoking behaviour which is done by women especially students. Smoking behaviour by female university students must also related with how do they communicate with their environment. Therefore, this research was aimed to know how exactly the communication behaviour by female university students with their environment. In this research, writer used research qualitative descriptive method. Through this method, writer wanted to know how exactly the communication behaviour by female university students with their environment and also to know what were the obstacle factors and supporting factors for the communication behaviour by female university students with their environment. All the data were confirmed with every people that are related with the research through source triangulation data validity. The results of this research show that smoking behaviour caused by parents role model, influence from close friends, advertising, spirit booster, faith, joy, peace, and habits. Smoking behaviour by female university students also can be inferred through five aspects of interpersonal communication concept. In this research, the three informan show how open they were in communicating with their environment. Smoking behaviour by female university students also depend on the condition so that it will not send negative perceptions from their environments.