

## **LAB Project**

**for**

## **"Microwave Engineering (EE 407)"**

**Dr Sheikh**

**(in term 051)**

*Please remember to collect all the required material from the lab and return them after you have presented and demonstrated the working prototype of the project. If you need help in using the Vector Network Analyzer measurement, please make an appointment with me..*

The project is to design a cavity resonator to measure the ration of water and petroleum level within the cavity. This project can be improved to monitor the water holdup within a multiphase petrochemical carrying pipeline.