

## **NON INVASIVE GLUCOSE METER**

*One of the biggest challenges of health in the 21<sup>st</sup> century is diabetics due to the exponential increase in the diabetic patients in the age group of 20 – 79 years . To prevent the complication due to diabetics is essential to monitor the blood glucose level continuously . Most of the regular glucose measurement systems are invasive in nature. Invasive methods cause pain time consumption, high cost and potential risk of spreading infections. Therefore there is a great demand to have reliable and cost effective and comfortable non invasive system for the detection of blood glucose level continuously. The proposed method is based on the measurement of glucose non-invasively by NIR transmittance. New infra-red transmittance which measures glucose non invasively involves a light source and a light detector positioned on either sides of the earlobe. The method that uses NIR transmittance technology to measure glucose will be easy and reliable to use.*