

Team OneKiss:

Our idea is to devise a biosensor that will allow us to monitor blood glucose levels non-invasively using saliva as the base. We will be fabricating the microfluidics based, economical and robust system on a chip for our device. The electrode design, coupler, and enzyme concentration, we will optimize with the help of computer simulations and a thorough literature review. This enzyme based approach is highly specific and is better than other optical-based biosensors which have certain limitations like spectral interference and person to person variation. Our device can also be fortified with an app-based system which will allow online monitoring of the patient's glucose levels.

