



**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

**DEPARTMENT OF BIOMEDICAL ENGINEERING**

**REPORT**

**Webinar to our faculties and students on the topic “NON INVASIVE DISEASE  
DIAGNOSIS BREATH ANALYSIS” on 31.10.2020.**

The screenshot displays a Zoom webinar interface. The main content is a slide titled "Photo Ionization Detectors" which includes a schematic diagram of the detection system. The diagram shows a 266-nm Laser connected to a Laser power supply, which provides power to a +15 VDC source and an HV Converter. The HV Converter is connected to a Gas cell. The Gas cell is connected to a Micro-channel and an A/D Converter, which is in turn connected to a Computer. The Gas cell is also connected to a Switch, which is connected to a Commercial breath gas collection bag. The system is mounted on an Instrument platform (60 cm x 25 cm). A red box with the text "High Cost" and a downward-pointing arrow is overlaid on the slide. The Zoom interface shows 53 participants, with 6 panelists and 47 attendees. The system tray at the bottom shows the date and time as 10:26 AM on 10/31/2020.

The Department of biomedical engineering conducted a Webinar to our faculties and students on the topic “Non Invasive Disease Diagnosis Breath Analysis” on 31.10.2020. The guest speaker Dr.Ramji Kalidoss, Associate Professor, Department of BME, Bharath Institute of Higher Education and Research, Chennai. There were about 50+ students and faculties attended this webinar.



This webinar insists the Various breath analysis techniques which could be utilized in the diagnosis of several diseases. This webinar also address the volatile organic compounds, Instrumentation involved in each device used for disease diagnosis like CKD, cancers-research projects. This explains the different volatile compounds those are responsible for the respective disease diagnosis. It also explains in detail about the sensors and instrumentation used in monitoring. It explains about types of gas sensors and delivers the various projects based on Nano sensors. It also enumerated about the any other issues related to breath analysis.