



KKR & KSR Institute of Technology & Sciences

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Department of Electronics and Communication Engineering

WEBINAR 2K20 REPORT

DATE: 30-06-2020

EVENT: Webinar

TIME: 10:30 A.M to 12:30 P.M

VENUE: Go to meeting (**ONLINE**)

TITLE: NEW HORIZONS IN THE APPLICATION OF SENSORS DURING PANDEMIC SCENARIO

ORGANISED BY: ECE Dept.

CONVENOR: Dr. Sk. Sadulla HOD/ECE

DETAILS OF RESOURCE PERSON:

Amarendra Nath Yatavakilla is a Biomedical Scientist at CGCRI-CSIR, Kolkata, and interested in developing new Imaging products for Non-Invasive diagnosis, currently working on developing a Laser Speckle Contrast Imaging system for blood flow studies and also exploring new innovative techniques of using light and lasers in the field of medicine. He developed a fluorescence Macro Imaging system with High speed CMOS camera for Imaging calcium dynamics in Mice brain at Sirota Lab, Munich, Germany. He has 7 years of experience in wearable medical sensors and medical product development DEBEL-DRDO, (Ministry of Defence, India). He is a co-founder of tech start-up called GEMN R&D Pvt Ltd, Bangalore for medical product development.

KEY POINTS:

- How to overcome pandemic with technology
- Wearable sensors – will they help?
- Sensors efficiency in medicine
- Optical sensors during the hour of need
- New technologies to be explored in pandemic situation



Live Interaction

Webinar to be hosted by

Department of
Electronics & Communication Engineering

Amarendra Nath Yatavakilla

(M.S-GERMANY)
PROJECT SCIENTIST
FIBER OPTICS & PHOTONICS DIVISION
CGCRI-CSIR

**NEW HORIZONS IN THE APPLICATION OF
SENSORS DURING PANDEMIC SCENARIO**

Saturday 30th May 2020

10:30 A.M to 12:30 P.M

Registration link: **<https://tinyurl.com/kitsecewebinar1>**

Registration will be closed on 29th may 5:00 P.M

All are connected
via Gotomeeting

Convenor: Dr.Sk.Sadulla HOD/ECE

Contact Number: **73821 53446**



E-certificate will be given for active participants

EVENT DESCRIPTION:

This webinar named “NEW HORIZONS IN THE APPLICATION OF SENSORS DURING PANDEMIC SCENARIO” is organised by the ECE Department through online using Go to meeting link and youtube link. The speaker name is Amarendra Nath Yatavakilla (M.S.GERMANY) who was the Project Scientist Fiber optics & Photonics Division CGCRI-CSIR.

Epidemic Vs Pandemic

Sensors- what role will they play ?



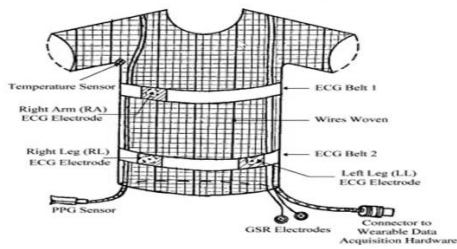
Non contact IR temperature sensor



UV Robot disinfecting hospitals

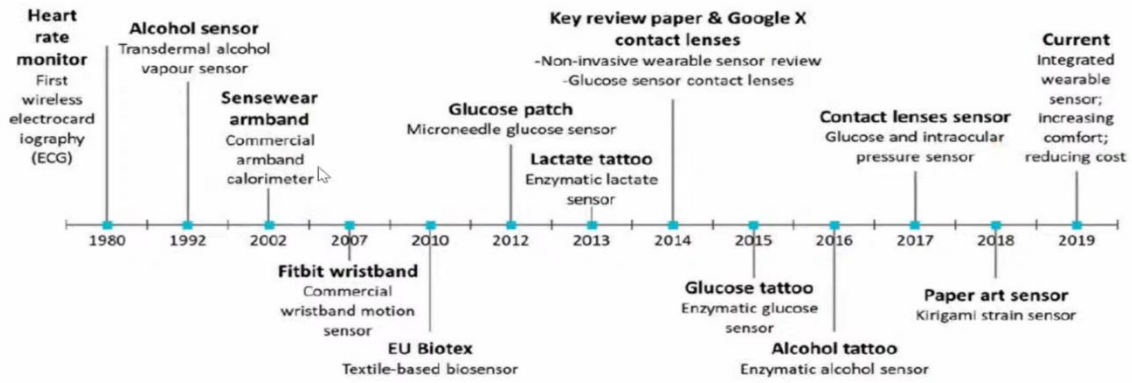
He speaks about the use of sensors in this pandemic situation. Non contact IR temperature sensors are used in a variety of applications where direct temperature measurement is not possible. With noncontact infrared temperature sensors, incoming light is converted to an electric signal that corresponds to a particular temperature.

Wearable sensors



UVD Robots is a Danish company making robots that are able to disinfect patient rooms and operating theaters in hospitals. They're able to disinfect pretty much anything you point them at—each robot is a mobile array of powerful short wavelength ultraviolet-C (UVC) lights that emit enough energy to literally shred the DNA or RNA of any microorganisms that have the misfortune of being exposed to them. He spoke about the Timeline and current trend of different projects.

Timeline and Current Trend



At the end of the session, the speaker clarified the doubts asked by the participants. After that vote of thanks was delivered by the student L. Sasi rekha on behalf of the department.

