



Learn Beyond

KPR Institute of Engineering and Technology

(Autonomous, NAAC "A")

Avinashi Road, Arasur, Coimbatore.

Phone: 0422-2635600

Web: kpriet.ac.in

Social: kpriet.ac.in/social

CEP005

NBA Accredited
(CSE, ECE, EEE,
MECH, CIVIL)**FLEXIBLE AND WEARABLE SENSORS FOR BIOMEDICAL APPLICATIONS**

Event No	CEP005
Organizing Department	Continuing Education Programme
Associate Dept. NSC	Electronics and Communication Engineering
Date	26/08/2022
Time	02:00 PM to 03:00 PM
Event Type	Webinar
Event Level	National
Venue	Via Zoom
Meeting Medium	
Meeting Link	https://meet.google.com/uis-juxu-jzv
Total Participants	162
Faculty - External	162

Related SDG**Resource Persons**

Sl	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Dr Shanmuga Sundar Dhanabalan	Researcher	RMIT University, Melbourne	shanmuga.sundar.dhanabalan@rmit.edu.au	xxxxxxxxxx

Involved Staffs

Sl	Name	Role
1	Vasim Babu M	Coordinator
2	Gurumoorthy K B	Coordinator
3	hod_ece@kpriet.ac.in	Convenor

Outcome

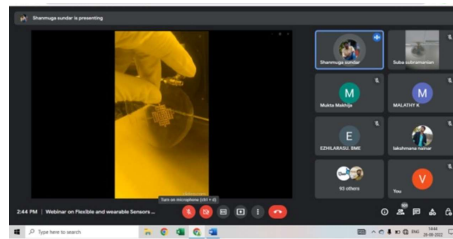
Participants acquired the knowledge of Various wearable sensors used for bio medical applications.

Event Summary

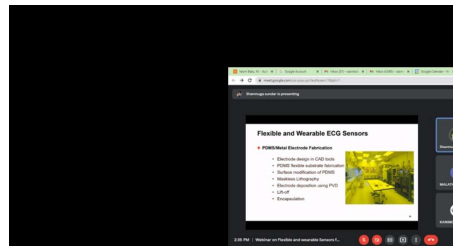
Date : 26-08-2022 Venue : Online Mode Level of the Event: National level Type of Event : Webinar (Online) Title of the Event: flexible and wearable sensors for biomedical applications In Association with: Department of ECE Resource Person : Dr.Shanmuga Sundar Dhanabalan Researcher Functional Materials and Microsystems Research Group School of Engineering, RMIT University Melbourne, Victoria 3001 Australia. Convener: Dr.Kathirvelu Co-ordinators : Dr.M.Vasim babu, Dr.Gurumoorthy No. of Internal Participant (Count): Faculty: NA Research Scholars: NA Students: NA No. of External Participants (Count): Faculty: 162 Research Scholars: NA Students: NA Outcome: Participants acquired the knowledge of

Various wearable sensors used for bio medical applications. Report (in words): Totally 162 participants have attended the webinar. The resource person elaborated the followings: · Type of Wearable sensors for Bio medical applications · Latest trends in Bio medical engineering · Future research directions in bio medical engineering · Real time example for wearable sensors · Future research scopes in wearable sensors for bio medical application. Thanks to the superiority of advanced wearable technologies, including miniaturization, portability, stretchability, comfort, intelligent human-machine interface, etc, flexible and wearable body sensors hold great promise for next generation biomedicine and healthcare applications. Unfortunately, the data precision, response speed, sensitivity and selectivity, durability, compatibility with flexible substrates, and preparation techniques still need to be enhanced and refined to meet the requirements of clinical evaluations or even commercialization. According to working principles, flexible and wearable sensing platforms can be roughly divided into four categories: physical sensors, chemical sensors, biosensors, and the combination of different types of sensors.

Here, a brief review focused on the recent developments of these flexible and wearable sensors applied especially to biomedicine and healthcare is presented. In addition, the existing challenges and potential opportunities ahead in flexible and wearable sensor technologies are discussed.



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