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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Technical Talk Report on

Wearable Sensors and IoT for Health Care

Event name: Wearable Sensors and IoT for Health Care

Date of event: 14th February, 2024

Venue: Aryabhatta Seminar Hall, Dept. of ECE, KSSEM

Number of participants: 100

Targeted Audience: 3rd Year ECE Students.

The department of Electronics and Communication Engineering, KSSEM, had organized a technical talk on, **"Wearable Sensors and IoT for Health Care"** on 14th February, 2024 at 11:30AM IST.

The talk was delivered by **Dr S B Bhanu Prashanth**, Professor, BMSCE, **Dr.K Senthil Babu**, HoD of ECE, **Dr. Mahabaleswar R Bhatt**, Associate Director, KSRIF, **Dr Karthik P**, IEEE Students Branch Councilor graced the event with their presence. The seminar was attended by both faculty members and students.

Discussion:

Smart Wearable Sensors:

Smart wearable's generate a plethora of data through various sensors and software algorithms and understanding their basic engineering principles and limitations can be helpful for clinicians and scientists.

Evidence supports the use of wearable devices in cardiovascular risk assessment and cardiovascular disease prevention, diagnosis and management, but large, well-designed trials are needed to establish their advantages.

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Medical IoT Systems

The internet of medical things (IoMT) is the collection of medical devices and applications that connect to healthcare information technology systems through online computer networks. Medical devices equipped with Wi-Fi enable the machine-to-machine communication that is the basis of IoMT.

Wireless Body Area Network

Wireless body Area Network is the interconnection of multiple nodes that are located in or around the surface of the body which is capable of wireless communication. Wireless body Area Network involves various monitoring application environment, warfare, agriculture, military and health care. The sensor nodes are usually light weight, low cost, low power consuming intelligence devices which are capable of sensing, computing, communicating with each other wirelessly. This review gives a clear overview about the functions of WBAN.
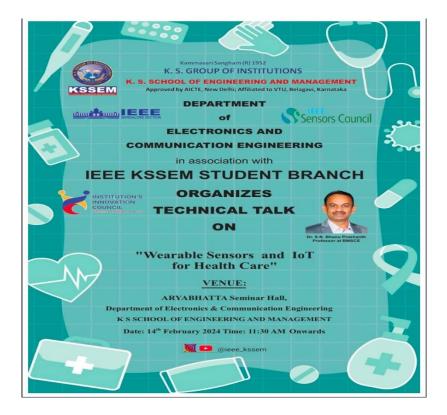
Photo Gallery

Fig 1. Technical Talk Event Brochure

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Fig 2. Speaker Addressing the Students

Fig 3. Student Participants in the Event