



**KSSEM**  
K S SCHOOL OF ENGINEERING AND MANAGEMENT

KammavariSangham (R) 1952

**K. S. GROUP OF INSTITUTIONS**

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

# TECHNICAL TALK ON ON COMPUTATIONAL & 'SM

## ART' ECG SENSING CUM ANALYSIS

Organized by IEEE Student Branch, KSSEM



In association with IEEE Bangalore section

**Event name:** On Computational & Smart ECG Sensing Cum Analysis

**Date of event:** 3rd October, 2023

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

**Number of participants:** 60

**Targeted Audience:** 4<sup>th</sup> Year ECE Students.

The IEEE Student branch in association with the ECE department, of KSSEM, had organized a technical talk on, **“On Computational & Smart ECG Sensing cum Analysis”** on 3<sup>rd</sup> October 2023 at 11:30AM. The seminar was conducted at K.S School of Engineering & Management, Bangalore. The talk was delivered by **Dr Mahabaleswar R Bhatt**, Associate Director, and KSRIF. Dr D R Swamy, Executive Director, KSRIF, Dr. K Senthil Babu, HoD of ECE, & Dr. Karthik P, Professor and branch counsellor of IEEE KSSEM SB graced



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the event with their presence. The seminar was attended by both faculty members and students.

**Electrocardiography** is the process of producing an **electrocardiogram (ECG or EKG)**, a recording of the heart's electrical activity through repeated cardiac cycles. It is an electro gram of the heart which is a graph of voltage versus time of the electrical activity of the heart using electrodes placed on the skin. These electrodes detect the small electrical changes that are a consequence of cardiac muscle depolarization followed by repolarization during each cardiac cycle (heartbeat).

ECG usually means a **12-lead ECG** taken while lying down as discussed below. However, other devices can record the electrical activity of the heart such as a Holter monitor but also some models of smart watch are capable of recording an ECG. ECG signals can be recorded in other contexts with other devices.

The event was conducted to create awareness to students of KSSEM to understand the importance of ECG, various benefits, opportunities, history and growth of ECG.



**Fig 1: Inauguration of Event**



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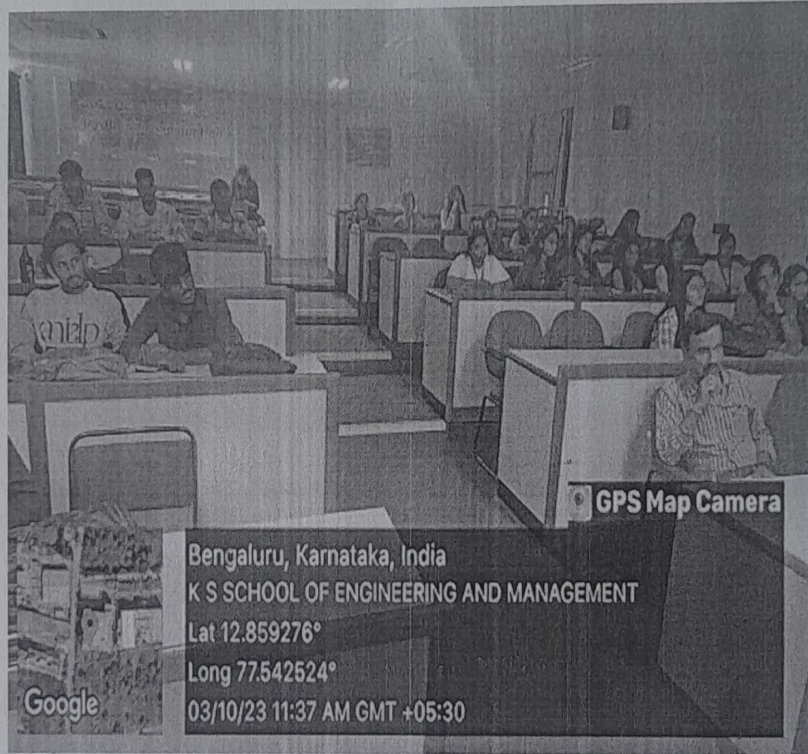
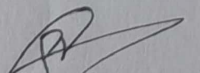
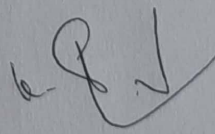


Fig 2: 7<sup>th</sup> SEM students who were present in the event

  
Co-ordinator

  
Signature of HOD, ECE

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109.