



**BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT**  
An Autonomous Institute Under VTU, Accredited by NBA and NAAC  
Yelahanka, Bengaluru-560119.

**Name of the Club:**

IEEE Engineering in Medicine and Biology Society (EMBS), BMSIT&M Student Branch

**Coordinator:**

Dr. Asha G Hagargund, ECE

**Objective:**

To foster student-led biomedical innovation that bridges engineering and healthcare for the betterment of society.

**Frequency of Meeting:**

Two team meetings per month, and an Annual General Meeting with all EMBS members.

**Social media links:**

Instagram: [https://www.instagram.com/embs\\_bmsit/](https://www.instagram.com/embs_bmsit/)

**Roles and Responsibilities:**

IEEE EMBS BMSIT&M is a community passionate about exploring the convergence of medicine, biology, and engineering. Members ideate, collaborate, and organize initiatives in biomedical technology, such as health data security, biosignal systems, neuroengineering, and diagnostics. Our aim is to empower innovation through events, workshops, hardware hackathons, and technical showcases. We provide a platform for networking, interdisciplinary learning, and engaging with global biomedical research.

**One Year Activities conducted:**

**SenseCrypt**

SenseCrypt was a flagship event organized by IEEE EMBS BMSIT&M, designed as a two-round biomedical hackathon that challenged participants to apply both theoretical knowledge and practical skills. The first round featured a technical quiz focused on medical steganography, biosignal encryption, and bioinformatics, testing the participants' understanding of data privacy and biomedical systems. Shortlisted teams advanced to the second round, where they built innovative biomedical hardware prototypes within a limited timeframe. The event encouraged interdisciplinary thinking, rapid prototyping, and real-world problem-solving in the healthcare domain, making it a unique blend of challenge, creativity, and impact.

**IEEE Open Day**

IEEE Open Day was an interactive showcase hosted by IEEE EMBS BMSIT&M to engage students and the public with emerging biomedical technologies. The highlight of the event was a series of live demonstrations on Brain-Computer Interfaces (BCIs), where attendees

experienced real-time EEG signal acquisition and control systems. The expo also featured engaging activities such as the Reaction Time Challenge, designed to introduce neuroscience concepts in a fun and intuitive way. Through hands-on demos and peer-led explanations, the event sparked curiosity, promoted biomedical awareness, and highlighted the practical impact of engineering in healthcare.

**Photos if required:**



### **SENSECRYPT**



### **IEEE OPEN DAY**