

Department of Bio-Medical Engineering

1. About the Department:

- Biomedical Engineering (BME) department is well-regarded for its comprehensive curriculum and state-of-the-art facilities. The department offers a Bachelor of Engineering (B.E.) degree program in BME, accredited by the National Board of Accreditation (NBA).
- **Industries and Hospital Collaboration:**
- We signed MoU with leading hospitals like Royal Care Super Speciality Hospital, Silicon Systems, Vital Bio Systems Pvt Ltd, Aravind Eye Hospital, Coimbatore, GEM Hospital Coimbatore, Helix Private Limited Bengaluru, Ganga Hospital Coimbatore

2. Facilities Available for Industry Collaboration

- ❖ Biomedical Sensors & Instrumentation Laboratory: Hands-on learning of device design and testing Equipment: ECG, EEG, and EMG simulators.
- ❖ Blood pressure monitoring systems.
- ❖ Pulse oximeters and glucometers.
- ❖ Microcontroller platforms (e.g., Arduino, Raspberry)

3. Consultancy Services

- These services are designed to address specific industry needs and provide innovative solutions. Biomedical Engineering has accomplished consultancy with V Guard systems, VI Microsystems Chennai and currently the consultancy works of Aravind Hospitals worth 1 lakh is under process.

4. Testing Services

- **Description: Testing Services in Medical Device Development** Testing is a critical phase in the development of medical devices to ensure they meet regulatory, safety, and performance standards, we have planned to establish a Centre of Excellence on Testing and calibration of medical equipment in the year 2025.

5. Executive Development Programs

- Biomedical Engineering plans to conduct an Executive Development Programs in the month of March'25 for Industry delegates and hospital personnels by joining hands with CPC. This involves one day refreshing program to enhance their potential for work life balance and the outcomes of the programs aims to improve the overall performance and wellness of an employee in hospital and industry.

6. Research and Development Collaborations

Biomedical Engineering received funding from CSIR & TNSCST and have won Nan Mudhalvan under Student project category. We have technical collaborations with Masonic, Ganga, Royal care, Aravind and also with GEM hospitals where students take a problem statement from hospitals to seek the engineering solutions.

7. Achievements and Success Stories

- Signed 10+ MoU with leading Hospitals and industries
- Generated revenue of worth Rs.100,000 on consultancy / training / testing service.
- Entrepreneurs play a significant role in various aspects of society and the economy. Their contributions are multifaceted and have far-reaching impacts. One student Ms. SONIYA.N from 2019 batch has become an entrepreneur and steps have been taken to motivate student to become an entrepreneur is being practiced regularly



Ms. for SONIYA. N (2019- 2023)