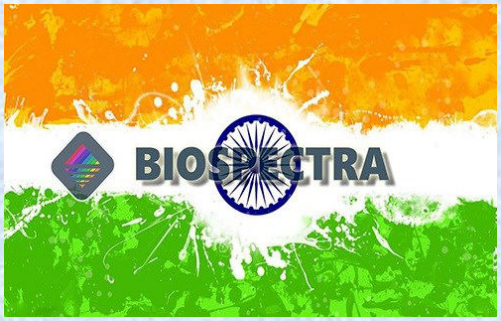
BIOMEDICAL ASSOCIATION

It is an association organized by the final year Biomedical students with the guidance of faculty members. Various events such as symposium, workshops, career guidance programs, technical quiz competitions are being conducted by this association in order to guide, enlighten and inspire students regarding the field of Biomedical Engineering.



Biospectra is a National level technical symposium conducted every year by the biomedical engineering students. Here Intra and Intercollege students can participate in this symposium

CAREER GUIDANCE

Biomedical engineers design instruments, devices and software used in healthcare, develop new procedures using knowledge from many technical sources or conduct research needed to solve clinical problems.

STUDENT ACHIEVEMENTS

- Kurukshetra Project
- CTDT Project
- Top 3 innovations at Living Talent, Dubai
- Intel Innovation challenge 2018, Bangalore
- Intern at Taipei Medical University, Taiwan.
- FTTP, Swinburne University, Australia.
- Student exchange program at university of Bern, Switzerland.
- Top 1 Innovator of India under Biomedical Research-18, HITCON, Ahmedabad.

FOR FURTHER INFORMATION PLEASE CONTACT

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B.E BIOMEDICAL ENGINEERING

Professor-in-charge: Prof.Dr.M.Sasikala

VISION

To be recognized as a benchmark and trend setter in Electronics and Communication Engineering domain keeping in pace with rapidly changing technologies through effective partnership with reputed academic institutions, research organizations, Industries and community.

ABOUT DEPARTMENT OF ECE

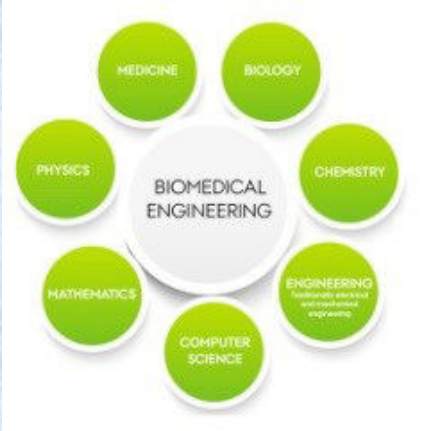
The Department of Electronics and Communication Engineering is currently a hot destination for the dream of the students with highly qualified faculty and the state of art laboratories. The department aims at creating quality engineers with sound knowledge and awareness of the latest advancements in existing and emerging technologies. The faculty and the students of DECE are continuously engaged in the relentless endeavor to improve upon past perfor mance and to uplift the position among the league of engineering institutions.

WHY BIOMEDICAL ENGINEERNIG ?

This century has witnessed the emergence of Biology as a core scientific discipline alongside Chemistry and Physics. This is primarily due to an explosion in the rate which scientific and technological advances are being made worldwide. Indeed, technology is transforming our lives, no longer on a scale of decades but of years and even months. National development cannot be completely addressed without a discussion of healthcare. A highly qualified group of graduates can modify existing technology or develop new.

ELIGIBILITY

Candidate must have passed the 10 +2 or equivalent examination from a recognized state or central board with at least 50% of the marks with physics, chemistry, and Mathematics as the major subjects of study.



PROGRAM EDUCATIONAL OBJECTIVES

- Prepare the students to comprehend the fundamental concepts in Bio Medical Engineering
- Enable the students to relate theory with practice for problem solving
- Enable the students to critically analyse the present trends and learn and understand future issues.
- Motivate the students to continue to pursue lifelong learning as professional engineers and scientists and effectively communicate the technical details and to work effectively in teams of Multi disciplinary nature and to apply Bio Medical Engineering solutions to the society.
- Enhance the capability of the students to find out the innovative and cost effective solutions to the health care industries.

AREAS OF STUDY

- Diagnostic and Therapeutic Equipments
- Biomaterials
- Biomechanics
- Biomedical Instrumentation
- Radiological Equipments
- Biochemistry
- Anatomy and Physiology
- Biosignal Processing
- Rehabilitation Engineering
- Biomedical Optics
- Physiological Modeling
- Sensors and Measurements
- Patent Recognition and AI Techniques.

FACILITIES

- Medical Electronics Lab
- Sensors and Measurements Lab
- Data Acquisition System Lab
- Diagnostic and Therapeutic Lab
- Image Processing Lab
- Opto Electronics & Imaging Lab
- Biomedical Instrumentation Lab

RESEARCH WORKS

- Cardiac Functional Analysis
- Low Cost Rehabilitation Aids
- Foetal Electrocardiography and Uterine Contractile Analysis
- Biosensors and Instrumentation
- Biosignal Processing and Medical Imaging
- Medical Informatics Lab
- Brain Electrical Activity Monitoring
- Wearable Technologies
- Bio Impedance Technique
- Bio MEMS
- 3D Modeling & Visualization of Medical Images
- Medical Standards.
- Diabetic Retinopathy.

HOSPITAL TRAINING

Biomedical Engineers play an important role in providing patient care and by adopting a systematic approach towards healthcare technology management to achieve high levels of patient safety. One month hospital training is mandatory for the seventh semester students.

HOSPITAL COLLABORATION

- Apollo Hospitals
- KJ Hospital
- Fortis Malar Hospital
- Sri Ramachandra University
- Bharat Scan
- DEBEL, Bangalore
- Diabetic Foot care, Chennai
- Cypress Semiconductors, Chennai
- Texas Instruments, Bangalore
- NIMHANS, Bangalore
- Sankara Nethralaya
- TANUVAS
- Stanley Medical College
- Aravind Eye Hospital, Pondicherry
- Sri Muthukumaran Medical College and Research Institute.