

# ASSOCIATION ACTIVITIES OF BIOMEDICAL ENGINEERING DEPARTMENT

## ABOUT THE DEPARTMENT

The Objective of Biomedical Research is to understand the underline mechanism of diseases and develop innovative solutions for diagnosis treatment and prevention. This field aims to improve health care outcomes by advancing medical technology drug discovery and personalized medicine. Biomedical research also focuses on addressing global health challenges such as infectious diseases and chronic conditions. Collaboration between scientist clinicians and engineers is essential to achieve this objectives. Ultimately, the goal is to enhance human health and well being through scientific discovery and innovation.



## SPECTRA:



The Department of Biomedical Engineering celebrated the Spectra '23. Dr. Jasmine J. C. Sheeja, ASP & HOD/BME, arranged the event expertly. A.R. Aadhira gave the welcome address, followed by Ms. Fionna Ananth, who introduced the chief guest and gave a priceless speech to the students. Following the conclusion of the inaugural function, the technical events were held. Ms. Anushuya and team won the competition, while Ms. Monica and team came in second.

#### **Workshop on PCB Design**



The Department of Biomedical Engineering at RCET held a Medical Workshop on December 11, 2023, and December 12, 2023. The program was led by our esteemed Head of Department, Dr. R.B. Benisha, who also gave a guest introduction. The program covered the topic of "PCB DESIGNING," with Mr. Kailash from Tresbytes from Tirunelveli leading the team. On the first day, he gave us an overview of PCB boards, and on the second day, he taught us how to design a PCB board. The program concluded with a vote of gratitude, which was presented by Mrs. Dhanees Surya Jenifer, Assistant Professor/BME. The faculty and students made this program a huge success.

#### **Internship**



The Department of Biomedical engineering students went to an internship on 9.10.2023 to 1.11..2023 at Vivek labarotary in Nagercoil and SP Scan centre in Nagercoil. The students have learnt about various equipment usages like sample collection, haematology, pathology biochemistry, histopathology at Vivek labarotary for 15 days. In SP Scan centre they learnt about Magnetic resonance imaging, computerized tomography, ultra sonography, x-ray , for 3 days . This internship has really made a great exposure to the students.

#### **Industrial visit**



On 23.9.2023 and 24.9.2023, students from our department of biomedical engineering journeyed to Bangalore and Mysore for an industrial visit. While there, they visited the Mysore scan industry and learned about the production of medical equipment such as defibrillators, mobile x-ray machines, respiratory care, and veterinary care. Students now know how to make cables and what materials are utilized to make medical equipment.

## PONGALCELEBRATION

The Biomedical Department celebrated Pongal in our college on January 12, 2024. By 2:00 pm, the celebration had officially begun. Faculties and students started the celebration in front of Issac Newton block. All the pupils wore different hues but in identical style which gave us a great traditional image. Each and every phase of Pongal made the youngsters to involve with lot of inquisitive. Although everyone has a distinct perspective, the students raised their voices enthusiastically when Pongal swung the pot. The department's faculty and students participated in many projects to create Pongal, and the end product was as delicious as Pongal and revealed the extent of our oneness.



## SCIENCE EXPO



The department of biomedical engineering students have participated in the science expo which was held on february 28 in our RCET campus, Our students have submitted about 38 projects while all the 58 students have brought the medicinal plants where they taught the students of other schools and collleges about their uses and students have also submitted the project works they have made. 17 students have made 3d models of brain, heart, kidney, lungs and also human and animal cells which really gave a good experience for the students, They also taught the

students about our streams. The science expo was really helpful for our department. The expo started at 11am and it ended at 3pm.

### **World Cancer Day**



World Cancer Day was observed by our department on February 4, 2024, and an online program to raise awareness of cancer was implemented. All 58 students participated in this event, which was organized by the Institution's Innovation Council as a Ministry of HRD effort. Dr. R.B. Benisha, the head of our department, kicked off the program, and the students discussed their expertise regarding cancer awareness. The program began at 5:00 p.m. and lasted for one hour, ending at 5:00 p.m. It was a really beneficial session for every kid.

### **Medical camp in College**



On National Immunization Day, March 16, 2024, the biomedical students of RCET conducted a medical camp at Imperial Hall of Rohini College of Engineering and Technology. They set up blood pressure monitoring, oxygen level monitoring, blood grouping, RBC & WBC count, temperature check, height & weight check, and blood sugar level. They welcomed all departments of RCET students and faculty. The camp was very beneficial to all of the students. The students participated in various stages of work, which exposed them to the knowledge they

had learned. The camp was designed with many safety precautions, such as the use of gloves, masks, sanitizing, etc., and was a great way to check the health status of RCET family members.

### **Medical Camp in Rural Areas**

On 20-03-2024 the RCET biomedical students have organised a Medical camp with Rotary Club Nagercoil and Dr Agarwal Eye Hospital. The welcome speech was given by Mrs. K.Dhanees Surya Jenifer (AP/BME). This camp was arranged with the help of Mr. P.Jaya Kumar(Vice principal of RCET and Rtn. PHF. A. Selvaraj ( Founder of Rotary Club Nagercoil). This camp was coordinated by Dr. R.B. Benisha(HOD/BME). The students got the help of NCC students of RCET to set the medical Camp The students organized for the checkup like bloop pressure monitoring, oxygen level monitoring, height & weight check, RBC & WBC check, temperature check, sugar level check and eye check was done. The camp was very useful and it is a good opportunity to work with Dr. Agarwal Eye Hospital.





### **A NATIONAL LEVEL TECHNICAL SYMPOSIUM” BIOTRONIX 2K24**

The Department of Biomedical Engineering of RCET has organized “ A National Level Technical Symposium” BIOTRONIX 2K24 on 16.04.2024@ Grand Arena , RCET. Our honourable chairman Shri.K.Neelamarthandan, Pro-chairman Dr.N.Neela vishnu, Managing Director Dr. V.M.Blessy Geo has graced the programme. The function started with Tamilthai Vazhthu and Lighting the Kuttuvilakku by Dignitaries. Our respected Head of Biomedical Engineering department Dr.Benisha R B welcomed the gathering. Then the presidential address was given by our respected principal “Dr.R.Rajesh”. He was inspiring all the students by his speech and congratulated all students who worked great in their project. He was motivating all the students with respect to placement and also spoke few words about the placed students. Introduction of chief guest was given by Ms. Adhira, second year ECE. The Inaugural address was delivered by Dr.Srinivasa Kanan, MD,Vivek Laboratories., Nagercoil, Annual report 2023-2024 was read by Student’s Vice-President Ms.Kamali followed by the release of Newsletter&magazine and the first copy of it was received by the chief guest. Vote of Thanks was given by the Student Ms.S.Monica, second year BME. The Inaugural function ended with the Flash Presentation. All the technical events such as Paper Presentation, Quiz, Technical Puzzle,Circuit Debugging and Non-technical events, were conducted in different venues. Students from various colleges have participated. About 80 students registered for different events. Valedictory function was started at 3.00PM with Vice-Principal as a guest. The Winners and First runner were awarded. The function was finally ended by thanking the management, Principal, Head of the Department, Faculty Members, Non-teaching staff and all Student Co-ordinators who worked for this event to make this event a great success.





