



NABIOCON 23

National Conference

On
Biomedical Instrumentation and Signal Processing

**Revolutionizing Healthcare:
Exploring Modern Medical Technology**



26th to 27th JUNE, 2023

Organized by
Department of Biomedical Engineering
TKM Institute of Technology
in association with IEEE EMBS TKMIT SCTIMST-
TImed, EMBS Kerala Chapter and TSI Kerala Chapter



ABOUT IEEE SB TKM IT

IEEE is the world's largest society that fosters technological innovation and excellence for the benefit of humanity. Keeping this true vision alive, IEEE TKMIT is flaunting as an epitome Students Branch. The Student Branch attempts to provide a platform for students from different branches and years to connect with each other and IEEE members from other colleges. EMBS TKMIT SBC had bagged the best Student Branch Award consecutively for the last two years. Determination and commitments of laborious students, backed by eminent personalities leading the role of SB Advisors, IEEE TKM IT SB will continue its mission.

Final paper submission: 20 June, 2023

The Registration Fee

IEEE Members: ₹500/-

Non-IEEE Members: ₹750/-

Registration Link

<https://forms.gle/7TJs5V5t5dL2Y1FJ6>



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ABOUT NABIOCON

NABIOCON 23, a national conference on biomedical instrumentation and signal processing, organized by the Department of Biomedical Engineering of TKM Institute of Technology in association with SCTIMST-TIMed, EMBS Kerala Chapter, TSI Kerala chapter and IEEE EMBS TKM IT. The conference is based on the theme "Revolutionizing Healthcare: Exploring Modern Medical Technology". It serves as a vital platform for knowledge exchange and fostering advancements in the interdisciplinary field of biomedical instrumentation and signal processing, with the ultimate goal of improving healthcare outcomes and patient well-being.

Biomedical instrumentation involves the development and application of devices and systems used for diagnosing, monitoring, and treating medical and blood pressure monitors to complex imaging systems like MRI and PET scanners. Signal processing plays a crucial role in extracting useful information from biomedical signals, such as electrocardiograms (ECG), electroencephalograms (EEG), and medical images, enabling better understanding, analysis and interpretation of the data.

The following topics are included, but not limited to:

- Medical Imaging Techniques and Systems
- Biomedical Sensors and Devices
- Signal Acquisition and Processing
- Biomedical Signal Analysis and Interpretation
- Bioinformatics and Data Analytics
- Internet of Medical Things
- Artificial Intelligence in Biomedical engineering

The conference provides an opportunity for the researchers and professional to network, collaborate, and explore potential collaborations and partnerships. It may also feature keynote speech, plenary sessions, panel discussions, workshops, and poster presentations, allowing participants to gain valuable insights and keep up with the latest trends in the field.

Advisory Committe

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About TKMIT



TKM INSTITUTE OF TECHNOLOGY

TKM Institute of Technology, established in the year 2002, run by the TKM College Trust, headed by Janab Shahal Hassan Musaliar. The institution is approved by AICTE and is affiliated to APJ Abdul Kalam Technological University. TKM Institute of Technology offers B tech programmes in six disciplines and two post graduate programmes. The College runs on a well- structured platform, that offers various infrastructure facilities such as the Central library, Department libraries, Central and Departmental Computer facilities, Career Guidance and Placement Cell, Innovations and Entrepreneurship Development Cell, and Sports facilities. The students participate regularly in events conducted by various student branches like the NSS, NASA, IEEE., and the college union. Various professional bodies such as IEEE, CSI etc organize seminars, hands-on workshops, hardware and software training programs, and other such activities which give opportunity to students and faculty members to enhance their skills and enrich their knowledge in areas beyond the prescribed curriculum. At TKMIT the whole process of learning is viewed in its holistic form, directed to empowering each individual to become a responsible citizen in keeping with its Founder's foresight to mould today's youth into tomorrow's future.

Department of Biomedical Engineering

The Department of Electronics and Biomedical Engineering was started in the year 2007 with affiliation to Cochin University of Science and Technology. In 2015 the college became affiliated with APJ Abdul Kalam Kerala Technological University and continued the program as B.Tech in Biomedical Engineering. The Biomedical Engineering department at TKM Institute of Technology is highly regarded and has established itself as a pioneer in providing quality education and ample atmosphere for developing a professional career in biomedical engineering. The vision of the department is to achieve academic excellence in biomedical engineering by developing engineers with a state-of-the-art technological skill and professional ethics, to support the health care needs of society.