

### Topics to be Covered

The topics to be covered in the conference are (but not limited to):

- ❖ Biosensors
- ❖ Bio-inspired materials
- ❖ Biomedical imaging
- ❖ Medical Robotics
- ❖ Biomaterial for clinical diagnostics
- ❖ Environment monitoring
- ❖ Drug delivery systems
- ❖ Bio materials
- ❖ Bioinformatics
- ❖ Instrumentation
- ❖ Medical wearable devices and Diagnostics
- ❖ Energy conversion
- ❖ Internet of Things (IoT)
- ❖ Machine Learning and Artificial Intelligence

### Dates For Remember

Submission of Full paper (IEEE format) to conference email : 08/06/2024

Selection Intimation to corresponding author : 12/06/2024

Last date for receiving registration form : 22/06/2024

### Registration Fee Details

Delegate Category	Fee (Rs)
UG & PG Students	: 750
Faculty Members & Research Scholars	: 1000
Industry Delegates	: 1250

### Organizing Committee

Patron : **Dr. K. Karunakaran**  
CEO/Hindusthan Institutions  
**Dr. J. Jaya**  
Principal/HICET

Convenor : **Dr. S. Saravana Sundaram**  
HOD/BME

Coordinator : **Dr. M. Ganga**  
ASP/BME

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### Student Members

**Mr. T. Anandharaj**  
**Ms. B. Srimathi**  
**Mr. G. Lakshman**  
**Mr. Shyam Mohith Sukumaran**  
**Ms. J. Nandhitha**

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**NATIONAL CONFERENCE**

on

**EMERGING TRENDS IN  
BIOENGINEERING AND TECHNOLOGY**

**NCETBT'24**

**JULY 03, 2024**



Organized by

**Department of Biomedical  
Engineering**



**HINDUSTHAN COLLEGE OF  
ENGINEERING AND TECHNOLOGY**

(Autonomous Institution)

Valley Campus, Pollachi Main Road

Coimbatore-32

[www.hicet.ac.in](http://www.hicet.ac.in)



### About the Institution :

Hindusthan College of Engineering and Technology (Autonomous) was established in the year 2000. Under the guidance of Hindusthan Educational and Charitable Trust, the institution is a prime example to combine industry collaboration,

innovation and top-notch academics. The campus is a highly sought-after place to study because of its superb infrastructure, excellent surroundings, committed and experienced faculty members. Hindusthan College of Engineering and Technology (HiCET) adopts innovative teaching and learning methods to instill quality, value-based education in its students and promote their overall growth.

The Hindusthan Educational and Charitable Trust is led by Founder & Chairman Shri. T.S.R. Khannaiyann, an industrialist and philanthropist, along with Managing Trustee Smt. TR.K. Sarasuwathi, a renowned Educationalist and Entrepreneur in Coimbatore. She has received prestigious awards like Bharath Gaurav Award, Rajiv Gandhi Shironmani Award, Indira Gandhi Sadbhavana Award, Best Entrepreneur Award and Life Time Education Award. She holds an honorary doctorate from the International Tamil University for her contributions to education. The institution is managed by Dr.K. Priya, Executive Trustee & Secretary. Chief Executive Officer Dr. K Karunakaran and the institution is headed by Principal Dr.J.Jaya.

The Institution offers 15 UG programs, 7 PG programs and 12 Doctoral programs with the total students strength of around 6000. Nine UG programs are accredited by National Board of Accreditation (NBA) and our institution has been accredited by National Assessment and Accreditation Council (NAAC) 'A+' Grade with CGPA of 3.69 out of 4 in Cycle 2.

The institution is recognized under Section 2(f) and 12B of University Grants Commission (UGC) and is an Autonomous Institution from 2016, affiliated to Anna University, Chennai with permanent affiliation for most of the programmes, approved by the All India Council for Technical Education (AICTE).

The Hindusthan Educational and Charitable Trust is led HiCET nurtures future global leaders by imparting right knowledge, skills and building attitudes among students to face the world in a fresh, energetic and unrestrictive work



environment, considering the integration of SDGs into the curriculum. Numerous Industry-Integrated programs and the institution's Innovation Centre promote risk-taking, creativity and innovation in order to identify businesses and stimulate entrepreneurship and start-ups.

The National Institutional Ranking Framework (NIRF) 2023 recognized HiCET within the 100-150 band in the Innovation category, a testament to the institution's prowess in fostering creativity and cutting-edge research. The accolades extend to being the Nodal Centre for the Smart India Hackathon, further showcasing HiCET's dedication to nurturing problem-solving skills among its students. The Institution has been recognized by The Department of Scientific and Industrial Research (DSIR), Government of Tamil Nadu with Scientific and Industrial Research Organisation (SIRO).

### About the Department :

Biomedical Engineering is an evolving discipline that draws on collaboration among engineers, physicians and scientists to provide interdisciplinary insight into medical and biological problems and focuses on the advances that improve human health and health care at all levels. The undergraduate curriculum of the biomedical engineering programme established in the year 2018. The mission of the department is to provide a value-based biomedical engineering education utilizing contemporary technologies and equipment, assemble a cohesive group of biomedical engineers to promote technologies via research and development and creativity and offer solutions to the healthcare industry that are

infused with moral principles and lifelong learning. Our curriculum is carefully designed to ensure that the students develop a strong base in biomedical engineering and also to familiarise them with other engineering disciplines which could equip them to work on a multidisciplinary innovative platform. Our department is recognised as Research Centre by Anna University for offering Ph.D programme in Biomedical Engineering. Our department has a Centre of Excellence in 3D printing and equipped with advanced and latest equipment for better learning. Our department has also been engaged in research and consultancy projects. It receives research support from some of the nation's most prestigious funding agencies and students at all levels gain hands-on experience that translates to real-world expertise.



### About the Conference:

The National conference on Emerging Trends in Bioengineering and Technology (NCETBT 2024) promises to be an exceptional event featuring a comprehensive program that encompasses a wide range of topics in biomedical, instrumentation, wearable devices and emerging technologies. This conference promotes communication across various fields in order to identify environmentally and medically sustainable solutions. In order to achieve this goal, NCETBT 2024 brings together bioengineering experts, researchers, practicing clinicians, academicians, industry professionals and representatives of government organisations to debate and discuss the most recent developments in the field, with an emphasis on applications in healthcare and the environment. Prospective writers are cordially invited to submit their abstracts for paper to the NCETBT2024

### Call For Papers :

The main objective of the Conference is the sharing of knowledge from all the Engineering community. The authors are expected to submit original contribution of on-going and unpublished work/review in IEEE - MS WORD format with maximum of six pages to the conference email-id [ncetbt24bmchicet@gmail.com](mailto:ncetbt24bmchicet@gmail.com).

Maximum of three authors per paper is allowed. Separate certificate will be issued to each author. Selected papers will be published in the Conference Proceeding. All the papers will be peer reviewed and checked for plagiarism. Copy right form and paper template will be shared in acceptance mail.

"Selected papers will be published in Web of Science (WoS)" Indexed journals (Processing fee as per journal guideline)

