A five day online Faculty Development Programme on

Recent Trends in Biomedical and Biomechanical Engineering:
An Interdisciplinary approach (RTBM²-2021)

10th September-14th September, 2021

Organized by
Department of Electrical Engineering, Biotechnology and Mechanical Engineering

In Association with Centre for Continuing Education

National Institute of Technology
(An Institute of National Importance)
Warangal, Telangana 506004
India

Coordinators
Dr. Palash Mishra
Assistant Professor, Dept. of Electrical Engg.

Dr. Thyageshwar Chandran
Assistant Professor, Dept. of BioTechnology

Dr. Shivraman
Assistant Professor, Dept. of Mechanical Engg.

NIT-Warangal
National Institute of Technology, Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 13 Departments offering eight undergraduate and 32-post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 inter-national students study in the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure, state of the art library, seminar halls and laboratories

Centre for Continuing Education
The Centre for Continuing Education of NIT Warangal organizes Continuing Education Programmes and Workshops in the frontier areas of Science, Engineering, Technology, Management, Humanities, Social Science and socially relevant themes on selffinancing basis in three different modes: (i) At NIT Warangal by NIT Warangal (ii) At NIT Warangal in collaboration with other Organizations (iii) By NIT Warangal Faculty at the Host Organization/Institute.

The Organizing Departments
All the organizing departments (Electrical, Biotechnology and Mechanical) have been actively engaged in teaching and state of the art research activities such as 3-D printing, Bioinformatics, Systems and structural Biology, Bioprocess Enng., Drug discovery, Nanoelectronics, Smart grids, Digital manufacturing etc. At present there are more than 100 Faculty members working on the said fields and allied domains. In addition, departments have strong Industry collaborations and MOUs with various organizations such as CPRI, ABB, PGCIL, DRDO, CITED etc. to carry out the collaborative research and consultancy projects. Many Research Projects Sponsored by DST-SERB, CPRI, SPRAC, DBT & ICMR are under execution. Further, departments have conducted several faculty Development Programs/Short-term training programs/workshops etc.

About the course
Bioelectrical and biomechanics are among the rapidly developing field formed by the amalgamation of biotechnology with electrical and mechanical domains. Although, their primary application rests with finding solutions to society health and wellness challenges, they are gaining overwhelming response in almost all the fields. In near future, the developments in biomechanics and bioelectrical fields are expected to flourish leading to several lifesaving medical technologies and treatment methods.

In the case of bioelectrical engineering several state-of-the-art techniques such as stretchable & self-healing electroluminescent skins, biomedical signal & image processing, biosensors ultrasound and X-ray imaging that are being currently employed in medical diagnosis will be detailed.

Further, this course will also highlight thrust research areas in biomechanics dealing with the advances in biopolymer, bio heat transfer, thermodynamic properties of biomolecules, prosthetic limbs, thermal comfort, protection, protective clothing etc.

This course has been tailor-made to cater to the needs of those who are interested in understanding the biomechanical and bioelectrical systems and their implications in human health.
Who should attend

The Programme is open to faculty and students/research scholars of all Engineering/Medical Colleges and other allied disciplines in India. The participant will be issued an e-certificate on successful completion of this course.

How to apply

Eligible candidates may apply by filling the following google form with payment proof on or before 9th September 2021.

https://forms.gle/RDcjbewqk5mrn5wy9