A five day online Faculty Development Programme on Recent Trends in Biomechanics and Bioelectrical Engineering: An Interdisciplinary approach (RTBMBE-2021) 2nd August-6th August, 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

Centres 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 self-financing 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 Engg., 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.
Eminent faculty from premier International (SUTD, Singapore; Univ. of Sussex, UK) & National universities (IISc, IITs, NIT-W & Asoka University), as well as from Industry will deliver lectures and conduct hands on sessions.

Resource persons

**Prof. G.K. Ananthasuresh, Ph.D.**
Professor, Mechanical Engineering, Indian Institute of Science (IISc), Bangalore
https://mecheng.iisc.ac.in/people/g-k-ananthasuresh/

**Dr. Tapan Kumar Gandhi, Ph.D.**
Assoc. Professor, Dept. of Elec. Engg., Indian Institute of Technology (IIT-D), Delhi
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**Dr. Hardik J Pandya, Ph.D.**
Asst. Professor, Division of EECS, Indian Institute of Science (IISc), Bangalore
https://ece.iisc.ac.in/people/hardik-j-pandya/

**Dr. Subburaj Karupppasamy, Ph.D.**
Asst. Professor, Medical Engg & Design Lab, Singapore University of Technology and Design (SUTD), Singapore
http://med.sutd.edu.sg/

**Dr. Hareesh Godaba, Ph.D.**
Asst. Professor, School of Engineering and Informatics, University of Sussex, UK
https://www.hareeshgodaba.com/

**Dr. Shubhasis Haldar, Ph.D.**
Asst. Professor of Biology, Asoka University, Haryana
https://www.asoka.edu.in/faculty#shubhasis-haldar-726

**Dr. Dr. Santhakumar Mohan, Ph.D.**
Assoc. Professor, Mechanical Engineering, Indian Institute of Technology (IIT-Pkd), Palakkad
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**Dr. Udayraj, Ph.D.**
Asst. Professor, Mechanical Engineering, Indian Institute of Technology (IIT-Bhilai), Bilhai
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**Dr. Himanshu Shekhar, Ph.D.**
Asst. Professor, Electrical Engg., Indian Institute of Technology (IIT-Gn), Gandhinagar
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**Mr. Manikanda Prabhu, M.E.**
Electrical component engineer, GE Renewable Energy, Chennai
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**Dr. Dr. Dr. Subburaj Karupppasamy, Ph.D.**
Asst. Professor, Medical Engg & Design Lab, Singapore University of Technology and Design (SUTD), Singapore
http://med.sutd.edu.sg/

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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 26th July 2021
https://forms.gle/RDcejbewqk5mrn5wy9

Registration fees

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<td>Faculty, Post doctoral fellows, Research Scholars, PG &amp; UG students</td>
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The registration fee may be remitted Online through NEFT, Quick transfer, Gpay, PhonePe, Paytm, or any other UPI to the Bank account given below and upload the proof of remittance in the google form.

**Important Note:** Please enter course code **RTBMBE** in remarks while doing transaction. This is mandatory.

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Any Queries?
Contact us

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