

**SERB sponsored Two Day Online Faculty
Development Programme
On
Recent Trends in Bio-signal Acquisition and
Research Perspectives in Signal Analysis**

Under SERB Scientific Social Responsibility Policy

March 25-26, 2022

Coordinator

Dr. Venugopal G



**N.S.S. COLLEGE OF ENGINEERING
Palakkad-678008**

**Affiliated to APJAKTU and approved by AICTE
(Department of Instrumentation & Control Engineering
Accredited by NBA)**

About NSSCE

NSS College of Engineering, Palakkad, one of the oldest engineering educational institutions in Kerala, was founded in 1960 by Nair Service Society under the leadership of the late Bharatha Kesari Mannathu Padmanabhan, during the second five-year plan with the assistance of the Central and State Governments under the Grant-in Aid Scheme. The college is now affiliated to the APJ Abdul Kalam Technological University, Kerala, offering six B Tech Programs (Civil Engineering, Mechanical Engineering, Electrical and Electronics Engineering, Instrumentation and Control Engineering, Electronics and Communication Engineering and Computer Science Engineering) and five M Tech Programs.

About the Department

The Instrumentation and Control Engineering department was established in 1980 and offers a full time BTech Degree course in Instrumentation and Control Engineering. The total annual student intake is 72. Department has been backed up by efficient, dedicated and specialized faculties and they work with dedication to keep in pace with the ever- changing control and instrumentation industry scenario.

Vision of the Department

To be a Centre of excellence of international acclaim in the realm of Instrumentation and Control Engineering producing self-motivated, knowledgeable and technically competent engineers to nurture the needs of the society.

Mission of the Department

- To impart engineering education at par with global standards to create self-motivated Instrumentation and Control Engineering graduates.
- To inculcate a passion for learning and an ability to utilize the knowledge for solving real world problems and industrial challenges.
- To be a premier center for Instrumentation and Control Engineering studies and research.
- To groom the graduates who uphold engineering ethics with a high degree of social commitment.

About the Programme

The FDP is hosted by Department of Instrumentation and Control Engineering, N.S.S. College of Engineering Palakkad. This course will discuss recent concepts and tools in bio signal acquisition with emphasis on their research in biomedical engineering.

Resource persons

The program will be conducted by the experts from premier educational institutes and R&D / industries.

Major course contents

This course aims to cover topics including

- Biosignal analysis
- High Density EMG: Acquisition to applications
- Biomedical data acquisition
- Time – frequency analysis of biomedical signals
- Complex network analysis in signal processing
- Artificial intelligence and machine learning applications
- Demonstration on biomedical signal acquisition systems
- Wearable sensors for biomedical application

Who can apply?

This workshop is intended for the faculty members from all engineering colleges and research scholars pursuing Ph. D. in engineering disciplines.

How to apply

- No Registration / Participation fee will be collected.
- Interested participants are requested to register through the following
- Google Form link on or before **23-03-2022**.

<https://forms.gle/4Y4wStdxpj1RV8deA>

General Instructions

- Number of participants is limited to 25.
- Selected participants will be intimated through e-mail on or before **24-03-2022**.
- Participation Certificate will be issued to only those who attend on all sessions.
- Participants should upload permission/ recommendation letter (attached in this brochure) duly signed by the Head of Institute / Director

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