



SERB Sponsored Online Training Program to Researchers

On

sEMG Signal Acquisition Using BIOPAC Data Acquisition System

under

SERB Scientific Social Responsibility Policy

[March 2, 2022]

Coordinator

Dr. Venugopal G (*Principal Investigator*)



Department of Instrumentation and Control Engineering

N.S.S. COLLEGE OF ENGINEERING

Palakkad-678008

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

Organizing committee

Chief Patron

Sri. G. Sukumaran Nair
Chairman, Governing Body,
NSS College of Engineering, Palakkad

Patron

Dr. Suresh P R,
Principal, NSS College of Engineering, Palakkad

Chairman

Prof. Nikhil Binoy C,
Associate professor & HOD
Instrumentation and Control
Engineering Department, NSSCE,
Palakkad

Coordinators

Dr. Venugopal G
Professor
Instrumentation and Control
Engineering Department, NSSCE,
Palakkad

For
Research Scholars of Engineering
Discipline

Resource person

Speakers will be experts from Gntechmd and BIOPAC.

How to Apply ?

- The duly filled registration form can be sent on the email id given below:
bmilabnssce@gmail.com

Registration Form

Name	
Designation	
Department	
Institute	
Address	
Email	
Phone No	
Mobile No	
Qualification	
Area of Specialization	

Signature of applicant :

Date :

Recommended and forwarded

(Signature of Head of the Institution/Head of the Department with seal)

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 BTech Programs (Civil Engineering, Mechanical Engineering, Electrical and Electronics Engineering, Instrumentation and Control Engineering, Electronics and Communication Engineering and Computer Science Engineering) and five MTech Programs.

About the Department

The Instrumentation and Control Engineering department was established in 1980 and offers a full time B Tech 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 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.

Objectives

This online training program will focus on surface electromyography signal (sEMG) acquisition using BIOPAC data acquisition systems. BIOPAC provides Life Sciences researchers a complete range of powerful, flexible, user friendly hardware and software platforms, aptly designed for obtaining great scientific data in lab settings, MRI, and real-world environments. The specific objectives of this training program are listed below:

- sEMG signal acquisition using BIOPAC instruments
- Hardware setup and subject preparation.
- Familiarization with AcqKnowledge software.
- Signal pre-processing and feature extraction.

Registration includes:

Participation in online lectures, hardcopy of certificate.

Notes

- There is no registration fee
- The number of participants is limited to 10.
- Registration will be on a first come first serve basis.
- Registration closes on **March 1, 2022.**

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