

## ORGANIZING COMMITTEE

### Chief Patron

**Dr.Nalla G.Palaniswami**

Chairman

Dr. N. G. P. Institute of Technology

### Dr.Thavamani D.Palaniswami

Secretary

Dr. N. G. P. Institute of Technology

### Patron

**Dr. O. T. Buvanewaran**

Chief Executive Officer

KMCRET

### President

**Dr. S. U. Prabha**

Principal

Dr. N. G. P. Institute of Technology

### Convenor

**Dr. K. VijayaKumar**

Professor & Head

Department of Biomedical Engineering

Dr. N. G. P. Institute of Technology

## ORGANIZING SECRETARIES

**Dr. J. Chitra & Dr. J. Revathi**

Asso. Professor & Ass. Professor (SG)

Department of Biomedical Engineering

Dr. N.G.P. Institute of Technology



## ONLINE REGISTRATION

Link for online Registration

<https://forms.gle/YE7wMcz8VeL2fx3j6>

(OR)



### Online Payment Details:

Account Name: Principal, Dr. N.G.P Institute of Technology

Account number:755056034

Bank Name:Indian bank

Branch:Kalapatty

IFSC CODE:IDIB000K173

## CONTACT DETAILS

### Dr. J. Chitra

Associate Professor / BME

Mobile: 6381015517

Email:chitra@drngpit.ac.in

### Dr. J. Revathi

Asst.Prof.(SG)/BME

Mobile:9894278986

E-mail:revathi.j@drngpit.ac.in



Council of Scientific and Industrial  
Research (CSIR)

Sponsored

Two-Day National Level  
Seminar

on

**Next Generation Battery Management System  
for Electric Vehicles: State-of-the Art  
Smart Charging and Discharging with  
Lithium Ion Batteries**

7<sup>th</sup> March 2024 & 8<sup>th</sup> March 2024

Organized by

Department of  
Biomedical Engineering



**Dr.N. G. P. Institute of Technology  
(An Autonomous Institution)**

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized by UGC and Accredited by NAAC with A+ and

**NBA(BME, CSE, ECE, EEE and MECH)**

Kalapatti Road, Coimbatore – 641 048.

## ABOUT THE INSTITUTION

NGPITECH an Autonomous Institution, established in the year 2007, shapes the aspiring budding engineers and prepares them to face the ever changing social, economical and technical landscape globally. The College is affiliated to Anna University, Chennai, approved by the All India Council for Technical Education (AICTE), New Delhi, recognized by UGC under section 2(f) and Accredited by NAAC with A+ Grade. AtNGPITECH, we provide world class engineering education and Research opportunities in new frontiers of Engineering and Technology with focus towards leadership and innovation. The spacious and vibrant campus houses excellent state-of-the-art infrastructure facilities, laboratories, library and this peaceful atmosphere ensures that learning as wonderful experience. The highly motivated faculty members are experts at integrating knowledge with competitive insights and practical applications. The supportive teaching-learning environment, results into a unique, joyful, valuable and powerful learning experience for everyone. Students are provided with opportunities for interaction with the Industry experts through Guest Lectures, Industrial Visits, Internships, Value added courses, etc. The campus has sustainable research infrastructure facilities and imparts research and development as a culture amongst the faculty members and students as well.

## VISION OF THE INSTITUTE

**To empower the students for succeeding in a changing world to become productive engineers and responsible citizens.**

## MISSION OF THE INSTITUTE

The stated vision of the institution will be achieved by:

**MI1:** Producing graduates with sound technical knowledge and skills in diverse engineering disciplines.

**MI2:** Adopting innovative teaching and experiential learning practices by competent faculty.

**MI3:** Enhancing knowledge and skills in cutting edge technologies through alliances with industry and research organizations.

**MI4:** Creating conducive learning environment with state-of-art infrastructure and laboratories.

**MI5:** Inculcating ethical standards among students, both societal and personal through outreach programs.

## ABOUT THE DEPARTMENT

The Department of Biomedical Engineering has been in existence since 2012. The Department is grown into a fully-fledged one with well-equipped lab facilities and infrastructure. The Department has well experienced faculty members of various specializations. The Department has signed MoU with various core companies and has collaboration for Research & Development / Student projects and consultancy works. Since inception, the department provides an encouraging environment and imparts the latest advancements in knowledge and skills through innovative methods of teaching. The students are trained to upgrade themselves and the department is striving mould them into a better engineer in this society.

## ABOUT THE SEMINAR

The seminar aims to provide a forum for researchers, enterprises and developers to share and discuss, explore the cutting-edge technology and methodologies related to Battery management system(BMS) for electric vehicles equipped with LIB batteries. The Seminar covers theoretical and practical aspects as well as technologies and systems. The purpose of the seminar is to equip participants with the knowledge and skills to effectively manage and utilize Lithium-ion batteries, ensuring their safe and efficient operation. It is useful for professionals in the fields of Electrical Engineering, energy storage systems, electric vehicle technology, consumer electronics and anyone interested in understanding the intricacies of lithium-ion battery technology.

## SEMINAR CONTENTS & OUTCOMES

- **Introduction- Electric vehicles and Lithium-ion batteries**
- **Smart charging and discharging concepts**
- **State-of-the-art BMS features and related technologies**
- **Advanced charging techniques**
- **Discharging strategies for enhanced range and battery life**
- **Industry case studies**
- **Future trends in BMS for E-vehicles**

## RESOURCE PERSONS

**Dr. S. Balaji Srinivasan**  
Head of Engineering  
Bosch  
Coimbatore.

**Dr. L. Ashokkumar**  
Professor  
PSG College of Technology  
Coimbatore.

**Dr. P. Raja**  
Associate Professor  
National Institute of Technology  
Tiruchirapalli.

**Mr. R. Karthick**  
Director,  
Taarck Equipments Pvt. Ltd,  
Pollachi.

## IMPORTANT DATES

Last Date for Registration : 05.03.2024

## REGISTRATION FEE

Members	Amount in Rupees
Faculty & Students from Academic Institutions Industry and R & D Organizations	500