



## About SVCE:

Sri Venkateswara College of Engineering (SVCE) is part of the SV Colleges group established in the year 2007 with a vision to become a leader in providing quality educational services. College is affiliated to JNTUA & Approved by AICTE, Recognized under sections 2(f) & 12(B) of UGC act 1956, Accredited by NAAC with 'A' Grade. The College offers 9 UG Courses (CE, CSE, ECE, EEE, CSM, CSC, CSD, IT & ME) & 4 PG Courses. 6 UG courses are accredited by NBA, New Delhi. The Institution conferred 'Autonomous status' by UGC, New Delhi in the year 2020. The campus is equipped with state of art laboratories and center of excellence through advanced tools and technologies. The central library has a large collection of books, journals and online resources for the benefit of students and faculty. Learning at SVCE has a pragmatic approach with a clear focus, valuing individual vision, intellectual discipline, and a sense of teamwork. We aim at developing our students to their full potential, preparing them to take the next step towards career success.

## Vision:

To be a center of excellence focusing on high quality technical education, research and technical services with global leadership competence to succeed in employment and higher education with ethical, social, entrepreneurial aspects updating to the real time requirements.

## Mission:

To impart high quality technical education by providing the state-of-the art infrastructure, core instruction. Advanced research and technical consultancy services with qualified and senior faculty. To prepare the students professionally deft and intellectually adept possessing excellent skill, knowledge and behavior with global competence.

### Chief Patron

**Prof. G. Ranga Janardhana**  
Hon'ble Vice-Chancellor, JNTUA

### Patrons

**Prof. M. Vijaya Kumar**  
Rector, JNTUA

**Prof. C. Sashidhar**  
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### Chair Persons

**Sri. A. Gangi Reddy**  
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**Sri. Prakash Ambavaram**  
Vice-Chairman

**Sri. Pradeep Ambavaram**  
Secretary

### Principal

**Dr. N. Sudhakar Reddy**  
Principal, SVCE

### Program Director

**Prof. B. Eswara Reddy**  
Director  
Faculty Development Cell, JNTUA.  
Secretary, ISTE AP Section

### Program Coordinator

**Dr. V Lakshmi Devi**  
Prof. & HOD - EEE, SVCE

### Program Co-Coordinator

**Dr. Kumar K**  
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## Faculty Development Program on HYBRID ELECTRIC VEHICLE'S BATTERY MANAGEMENT SYSTEM- RESEARCH CHALLENGES & OPPORTUNITIES

(25TH TO 29TH NOVEMBER, 2023)

Organized by

**Dept. of Electrical and  
Electronics Engineering**

**SRI VENKATESWARA COLLEGE OF  
ENGINEERING  
(AUTONOMOUS)**

Karakambadi Road,  
Tirupati-517507  
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and

**Faculty Development Cell**  
Jawaharlal Nehru Technological  
University, Anantapuramu  
(JNTUA)

In association  
with  
ISTE AP Section

# 5 Day FDP on Hybrid Electric Vehicle's Battery Management System- Research Challenges & Opportunities

## Resource Persons

- Dr. P. Raja**  
Professor, NIT Trichy
- Dr. T. Gowri Manohar**  
Professor & Head, S. V. University, Tirupati
- Dr. K Kamalpathi**  
Engineer R&D -Software Development  
Embitel Technologies Pvt. Ltd.
- Dr. V.Usha Reddy**  
Assistant Professor, SV University, Tirupati
- Dr. A. V. Giridhar**  
Associate Professor, NIT Warangal
- Dr. Moupuri Satish Kumar Reddy**  
Battery Specialist Engineer Nexigo Energy on  
Digital Twin Technology
- Dr. Ramji Tiwari**  
Joint Managing Director Bhairav Industries,  
Coimbatore
- Mr. S. Boobalan**  
R & D Engineer, Bhairav Industries, Coimbatore
- Dr. Sree Hari Charan Cherukuri**  
Deputy Manager - R&D Electric Powertrain  
Division at Marelli (India)
- Dr. N N MurtyA**  
Associate Professor, IIT Tirupati

## Session Topics:

- Battery Management System - Challenges & Opportunities
- Modern Electric Drives and Control Techniques for EV's
- Advanced Power Converters for Various Applications
- Hands-on Simulation Practice of Inverters, High Gain Converters, PV-Fed Converters, Resonant Converters, and their Applications in e-Transportations

## About FDP

The Department has highly qualified and rich experienced faculty with the aim of providing quality educational service. The Department has good infrastructural facilities and is equipped with full-fledged laboratories and audio-visual systems. The department focuses its research on Renewable Energy Sources, Hybrid Electric Vehicles, Power Electronic Converters, Battery management Systems, and Smart Grids, etc., The department established COE of LabVIEW Academy from National Instruments

### Objective:

Research thrust towards Electric Vehicle Technology is enhancing the world to focus on many areas like energy options, engine design, intelligent transportation, autonomous vehicles, vehicle electrification, hybridization, improved battery management systems, and new battery chemistries.

This workshop mainly targets to address the uncertainties and challenges in EV's and associated technologies through knowledge and information exchange sessions.

The main aim of this workshop is to expose new developments in the above areas of technology and the same may be imparted in the faculty and student community.

### Outcome:

The FDP aims to provide a theoretically sound foundation in Hybrid Electric Vehicle's Battery Management System along with the state-of-art research challenges in the respective areas and enhance the quality of education imparted in Institutions on recent development .

### Important Dates:

Last Date for Registration : **15-11-2023**

Intimation Of Selection : **20-11-2023**

Confirmation by the Participations: **21-11-2023**

Program Duration : **25-11-23 to 29-11-23**



<https://forms.gle/aQGugnZ6xpAJqdI59>

### Registration :

- No Registration Fee
- Faculty / Ph. D Scholars of Computer Science & Engineering / Allied disciplines are eligible to attend the program.
- Participants will be selected on First-Come-First-Serve basis.
- Number of registrations limited to 30
- Participants are advised to bring their own laptops for practise.
- Accommodation will be provided for outstation participants on prior request.

### Participation Certificate:

**Certificates will be issued based on the attendance percentage, Test Score and submission of Feedback.**