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**Dr. B.Karuna Kumar,** *Director, AS&A*

## CONVENOR

**Dr.B.Dasu,** *HoD-EEE, SRGEC*

## COORDINATOR

**Mr.Amarendra A.**

*Associate Professor, Dept of EEE, SRGEC,*

*Mobile: 9502626726*

## IEEE DEPARTMENT COORDINATOR

**Mr.E Virgil Kumar**

## RESOURCE PERSONS:

**Mr.N.Venkata Reddy**

*Chief Executive Officer*

Mr Kiran

Mr Vijju

Mr Prem

Ms Prasanna

Mr Anil

Vihaan Eectrix Pvt.Ltd, Vishakapatnam,

## ABOUT THE COLLEGE



The college is promoted by AANM & VVRSR Educational Society, Gudlavalleru and was established in 1998. The college is situated in Gudlavalleru, surrounded by lush green fields, providing serene atmosphere to learners. The college offers B.Tech. programmes nine in branches of Engineering viz, Civil, Electrical & Electronics, Mechanical, Electronics & Communication, Computer Science, Information Technology, AI & DS, Internet of Things and CSE (Artificial Intelligence and Machine Learning) with a total intake of 1320. It also offers five PG programmes in Engineering (M.Tech.) and Business Management (MBA).

## ABOUT THE WORKSHOP

Transportation is a backbone for countries economy. The traditional fossil fuel vehicles are facing serious challenges in terms of fuel efficiency, green house emission and fuel cost. The technology behind energy conversion from electric energy to mechanical energy has to deal with many challenges such as power train issues, charging infrastructure, grid impact, BMS for efficient charging and discharging, suitable power electronic converter for the power processing. The aim of the workshop is to provide an insight into the electrical vehicle components, their working and troubleshooting.

## TOPICS TO BE COVERED

- History of Electric vehicles
- Government schemes for EV
- Description of EV parts
- Types of battery technologies
- Types of Motors
- Study on wiring connections
- Hands On Experience on assembling and dissembling of EV

## A TWO DAY STUDENT DEVELOPMENT PROGRAMME

### ON ELECTRICAL VEHICLE TECHNOLOGY

9<sup>th</sup> - 10<sup>th</sup>, January 2023



Organized by

### Departments of EEE

Seshadri Rao Gudlavalleru Engineering College

(Autonomous)

Seshadri Rao Knowledge Village  
Gudlavalleru – 521 356, Krishna District,  
Andhra Pradesh

(Affiliated to JNTUK, KAKINADA)

Phone: 08674 - 273737, 273888,

Fax : 08674 – 273957

in association with

IEEE PES STUDENT BRANCH CHAPTER



Power & Energy Society®

<https://gecgudlavalleru.ac.in/>

## Schedule

<b>Day-1 (F.N) 09-02-2023</b>	<b>Timings</b>
Registration	9.00 AM to 9.30 AM
<b>Inaugural Function</b>	<b>9.30 AM to 10.00 AM</b>
Dignitaries on to the dais	10.00 AM to 10.02 AM
Opening remarks by coordinator	10.02 AM to 10.05 AM
Remarks by HOD	10.05 AM to 10.10 AM
Remarks by Principal	10.10 AM to 10.15 AM
Introduction of Chief Resource Person	10.15 AM to 10.17 AM
Sri N Venkat Reddy	
Remarks by Chief Resource Person	10.17 AM to 10.25 AM
Sri N. Venkata Reddy	
<b>Vote of Thanks</b>	10.25 AM to 10.30 AM
History of EV	10.00 AM to 10.15 AM
Government Schemes	10.15 AM to 10.30 AM
Top EV companies and opportunities	10.30 AM to 10.45 AM
Market Demand on 2, 3,4 Wheeler EVs	10.45 AM to 11.00 AM
<b>Break for Refreshments</b>	<b>11.00 AM to 11.15 AM</b>
Brief on Electric Vehicle	
Charging Stations	11.15 AM to 11.30 AM
Description of 2W- parts	11.30 AM to 11.45 AM
Brief on Battery technology used in EVs	11.45 AM to 12.00 AM

Battery Management systems	12.00 PM to 12.10 PM
Type of Motors in EVs	12.10 PM to 12.20 PM
General discussions & Queries	12.20 PM to 12.30 PM
<b>Lunch Break</b>	<b>12.30 PM to 01.30 PM</b>

### **Day-1 (AN) -Practical (Hands On Experience)**

Disassembling & study of EV outer casing parts	1.30 PM to 3.00 PM
<b>Break for Refreshments</b>	<b>3.00 PM to 3.15 PM</b>
Detaching and study of Electronic components	3.15 AM to 4.00 PM
Disassembling & analysis of Mechanical parts	4.00 PM to 4.40 PM

### **Day 2 (FN) - Practical (Hands On Experience)**

Study on Harness	
Wiring connections	9.00 AM to 10.00 AM
Study on Battery and Charger	10.00 AM to 11.00 AM
<b>Break for Refreshments</b>	<b>11.00 AM to 11.15 AM</b>
Assembling of EV Mechanical Parts	11.15 AM to 12.00 PM
Assembling of EV Electronic components & Battery	12.00 PM to 12.30 PM
<b>Lunch Break</b>	<b>12.30 PM to 1.30 PM</b>
<b>Day 2 (AN) - Practical (Hands On Experience)</b>	
Disassembling & Assembling of Charger Unit	1.30 PM to 2.15 PM

Test Drive on Assembled EV	2.15PM to 3.00 PM
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### **Break for Refreshments: 3.00 PM to 3.15 PM**

General discussion & Queries	3.15 PM to 3.45 PM
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### **Valedictory Function 3.45 PM to 4.30 PM**

Dignitaries on to the dais	3.45 PM to 3.50 PM
Remarks by coordinator	3.50 PM to 3.55 PM
Remarks by HOD	3.55 PM to 4.00 PM
Feedback by participants	4.00 PM to 4.05 PM
Remarks by Principal	4.05 PM to 4.10 PM
Certificates presentation	4.10 PM to 4.25 PM
Vote of Thanks	4.25 PM to 4.27 PM
National Anthem	4.25 PM to 4.30 PM

### **For Registration and Queries please contact**

#### **COORDINATOR**

#### **Mr. Amarendra A.**

Associate Professor,  
Department of EEE,  
SR Gudlavalleru Engineering College,  
Andhra Pradesh 521356  
Mobile: 9502626726