

Sri Venkateswara College of Engineering

(Autonomous Institution - Affiliated to Anna University)

Pennalur, Sriperumbudur Tk - 602 117

DEPARTMENT OF AUTOMOBILE ENGINEERING

22.04.2019

Submitted to the Principal

Sub: Report on Two Day Workshop on “Fundamentals of Electric Vehicle Technology”

Department of Automobile Engineering organized a Two Day workshop on "Fundamentals of Electric Vehicle Technology" in association with the Department of Electrical and Electronics Engineering with the approval and sponsorship of Rs.7500/- from the management of SVCE. This workshop was organized in view of upgrading the knowledge for our students of Automobile Engineering.

The Workshop was inaugurated by **Dr. K. R. Santha, Prof. & HoD/EE**, Sri Venkateswara College of Engineering and delivered the inaugural address and emphasized the importance on learning electric vehicle technology, in the presence of **Dr. J. Venkatesan, Prof. & HoD/AE**.

Resource Persons for the Two Day workshop

- 1. Mr. A. Jegan**
Senior Educator
Engineering Academy of PES SBU KPIT Technologies
Chennai
- 2. Dr. V. Ganesh**
Associate Professor / AE
SVCE
- 3. Dr. S. G. Bharathi Dasan**
Associate Professor / EE
SVCE
- 4. Mr. A. K. Boobalaseshthilraj**
Assistant Professor / AE
SVCE

Venue of the workshop : CAD Laboratory / Department of Automobile Engineering

SESSION DETAILS

DAY- 1	
Session:1	
Dr. V. Ganesh, ASP/AE	Fundamentals of Vehicle Electrical Load calculation for propulsion
Session: 2	
Dr. S. G. Bharathi Dasan, ASP/EE	Design of Electric Vehicle - Selection of Drives
Session: 3	
Mr. A. K. Boobalaseshilraj, AP/AE	Types of Batteries for EVs

DAY-2	
Session:1	
Dr. V. Ganesh, ASP/AE	Hands on training on Latest tools on EV modeling.
Session: 2	
Mr. A. Jegan, Senior Educator Engineering Academy of PES SBU KPIT Technologies Chennai	Opportunities in Automotive Industries for freshers and concepts on EV and HEV.
Session: 3	
Mr. A. Jegan, Senior Educator Engineering Academy of PES SBU KPIT Technologies Chennai	Introduction to Model based design for Simulation of EV

A group of students 20 students from Department of Automobile Engineering (II Year:11 & III Year:09) have participated in the programme.



Dr. J. Venkatesan, HoD/AE welcoming **Dr. K. R. Santha, HoD/EE** to deliver inaugural address for the Two Day workshop



Dr. K. R. Santha, HoD/EE delivering the inaugural address



Dr. V. Ganesh, Delivering a Lecture

There were Six Lecture sessions covering all the fundamentals of electric vehicle technology and model based design using MATLAB. These technical lectures were given by Mr. A. Jegan, Senior Educator, Engineering Academy of PES SBU KPIT Technologies, Chennai and by senior faculty members of Sri Venkateswara College of Engineering.



Dr. V. Ganesh, Delivering a Lecture



Mr. A. K. Boobalaseshthilraj, Delivering a Lecture



Dr. S G Bharathi Dasan, Delivering a Lecture



Participants



During Day - 1 of the workshop



Dr. S G Bharathi Dasan, Delivering a Lecture



Dr. J. Venkatesan, HoD/AE introducing the resource person on Day 2 of the workshop

Mr. A. Jegan, Senior Educator, Engineering Academy of PES SBU KPIT Technologies, Chennai given the technical lecture on Day 2 of the workshop.



Mr. A. Jegan, Delivering a Lecture



During Day - 2 of the workshop

The participants expressed their full satisfaction through Feedback. The lecture sessions were very well received and appreciated by the participants.

We express our heartfelt thanks to the management of SVCE for giving an opportunity to conduct Two Day Workshop and for financial support to conduct the event smoothly.



Participants group photo

The details of amount sanctioned, spent and returned are given below:

Sl. No.	Details	Amount Rs.
1	Sponsorship from Management of SVCE	7,500.00
3	Net amount spent for Workshop	6,500.00
4	Balance amount returned to SVCE	1,000.00

List of Participants


Sl No.	Name of the Student	Year of Study	Department	Institution
1	Arun Shankar M	II	Automobile Engineering	SVCE
2	Gowtham R	II	Automobile Engineering	SVCE
3	Parameshwar A	II	Automobile Engineering	SVCE
4	Praveen G K	II	Automobile Engineering	SVCE
5	Purushothaman K	II	Automobile Engineering	SVCE
6	Sudharsan Ananth	II	Automobile Engineering	SVCE
7	Vinoth N	II	Automobile Engineering	SVCE
8	Pavin G V	II	Automobile Engineering	SVCE
9	Siva Kumar S	II	Automobile Engineering	SVCE
10	Thamaraiselvan R	II	Automobile Engineering	SVCE
11	Vishnu E	II	Automobile Engineering	SVCE
12	Ajay Govindarajan G J	III	Automobile Engineering	SVCE
13	Arivuchelvan G	III	Automobile Engineering	SVCE
14	Hinasdeen A	III	Automobile Engineering	SVCE
15	Poovarasam T	III	Automobile Engineering	SVCE
16	Praveen G	III	Automobile Engineering	SVCE
17	Vignesh P	III	Automobile Engineering	SVCE
18	Vignesh S	III	Automobile Engineering	SVCE
19	Prashanth P	III	Automobile Engineering	SVCE
20	Rakesh G	III	Automobile Engineering	SVCE

Two Day workshop on "Fundamentals of Electric Vehicle Technology"

Duration: March 29th – March 30th 2019


Resource persons and Topics Covered


Sl. No.	Name	Qualification	Designation	Topics Covered
1.	Mr. A. Jegan	M.E	Senior Educator	<ul style="list-style-type: none">• Opportunities in Automotive Industries for freshers and concepts on EV and HEV.• Introduction to Model based design for Simulation of EV
2.	Dr. V. Ganesh	M.E., Ph.D	Asse. Prof. / SVCE	<ul style="list-style-type: none">• Fundamentals of Vehicle Electrical Load calculation for propulsion• Hands on training on Latest tools on EV modeling
3.	Dr. S. G. Bharathi Dasan	M.E., Ph.D	Asse. Prof. / SVCE	<ul style="list-style-type: none">• Design of Electric Vehicle - Selection of Drives
4.	Mr. A. K. Boobalaseshthilraj	M.E.	Asst. Prof. / SVCE	<ul style="list-style-type: none">• Types of Batteries for EVs


Dr. V. Ganesh
ASP/AE
Coordinator


Dr. S G Bharathi Dasan
ASP/EE
Coordinator


Mr. A. K. Boobalaseshthilraj
AP/AE
Coordinator


HoD / AE
Head of the Department
Department of Automobile Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur Taluk-602 117
Tamil Nadu, India


HoD / EE
Head of the Department
Department of Electrical and Electronics Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur Taluk-602 117
Tamil Nadu, INDIA



Sri Venkateswara College of Engineering
(An Autonomous Institution, Affiliated to Anna University)
Pennalur, Sriperumbudur.

On-board charger

Electric drive module

Department of Automobile Engineering
in association with
Department of Electrical and Electronics Engineering

Organizing

Two Day Workshop
on
Fundamentals of Electric Vehicle Technology
29th - 30th, March 2019

Coordinators

Dr. V. Ganesh, ASP/AE

Dr. S G Bharathi Dasan, ASP/EE

Mr. A. K. Boobalasantilraj, AP/AE

Conveners

Dr. K. R. Santha, Prof. & HoD/EE

Dr. J. Venkatesan, Prof. & HoD/AE

Electric drive module

Lithium-ion battery

Day 1

Session:1	
Dr. V. Ganesh, ASP/AE	Fundamentals of Vehicle Electrical Load calculation for propulsion
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Session: 3	
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Day 2

Session:1	
Dr. V. Ganesh, ASP/AE	Hands on training on Latest tools on EV modeling.
Session: 2	
Mr. A. Jegan, Member of Engineering Academy of PES SBU KPIT Technologies	Opportunities in Automotive Industries for freshers and concepts on EV and HEV.
Session: 3	
Mr. A. Jegan, Member of Engineering Academy of PES SBU KPIT Technologies	Introduction to Model based design for Simulation of EV

Resource Person

1. Mr. A. Jegan

Member of Engineering Academy of PES
SBU KPIT Technologies
Chennai

2. Dr. V. Ganesh

Associate Professor / AE
SVCE

3. Dr. S. G. Bharathi Dasan

Associate Professor / EE
SVCE

4. Mr. A. K. Boobalaseshthilraj

Assistant Professor / AE
SVCE

Venue: CAD LAB / AUTOMOBILE ENGINEERING

