

## DEPARTMENT OF MECHANICAL ENGINEERING

Report on

### ELECTRIC VEHICLE TECHNOLOGY WITH LIVE TESTING AND ANALYSIS

On

19.02.2019

#### Coordinators



**Dr. R. Ramesh**



**Dr. C. Senthamarai Kannan**



Dr. S. RAMESH BABU, M.E., Ph.D  
Professor & Head  
Department of Mechanical Engineering  
Sri Venkateswara College of Engineering  
Pennalur, Sriperumbudur (TK) - 602117.  
Tamilnadu, INDIA.

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## Approval Letter

Sri Venkateswara College of Engineering  
Department of Mechanical Engineering

To  
Dr. RR  
B  
12/12/20

Submitted to The Principal

11/02/2020

Through The HOD/MEC

Dear Sir,

**Sub:** Requesting approval for conducting "ONE DAY WORKSHOP ON ELECTRIC VEHICLE TECHNOLOGY WITH LIVE TESTING AND ANALYSIS" in association with Atalon, Chennai in the month of February, 2020-Reg.

We are interested to conduct "ONE DAY WORKSHOP ON ELECTRIC VEHICLE TECHNOLOGY WITH LIVE TESTING AND ANALYSIS" on 19<sup>th</sup> February, 2020. We plan to conduct this workshop for the Mechanical Engineering Students in association with Atalon Company, Chennai who is pioneer in NVH of Engine Systems. No of Students is restricted to 30.

The Registration fee of Rs 400/- will be directly payable to Atalon, Chennai, which includes Training, certification and refreshments.

Principal's Kind permission is requested for conducting the workshop.

Thanking you in anticipation

Yours sincerely,



Dr. R. Ramesh, M.E., Ph.D  
Professor/MEC  
Asst. HoD/MEC

Forwarded to the Principal for  
approval

Ramesh  
12/12/2020

To: HoD-MEC  
Approved;  
26  
14/12

Aut dept. shall  
be involved too

# PROGRAM SCHEDULE/ RESOURCE PERSON DETAILS

**TECHX**

KALAM'S VISION FOR INDIAN YOUTH



## WORKSHOP ON ELECTRIC VEHICLE TECHNOLOGY WITH LIVE TESTING AND ANALYSIS

**DATE: 19<sup>th</sup> FEBRAURY 2020**

### HANDS ON TRAINING VEHICLE AND TESTING EQUIPMENTS LIST

1. Electric two wheeler
2. Vibration testing DAQ and sensors
3. Power consumption meter

### Training schedule

#### Morning

- 8:45a.m - 9:15a.m - Basics of electricals and electronics
- 9:15a.m - 10:30a.m - Types of motors and controllers
- 10:30a.m - 10:45a.m - Tea break
- 10:45a.m - 12:00p.m - Types of batteries and Lithium ion battery technology

Research / Development / Project / Workshop / Training / Conference  
No.3, Seethapathi Nagar, 4<sup>th</sup> Cross Street, Velachery, Chennai - 600 042.  
Cell: +91 8610172837

FN

# ATTENDANCE SHEET



SRI VENKATESWARA COLLEGE OF ENGINEERING  
DEPARTMENT OF MECHANICAL ENGINEERING



**One day workshop on Electric Vehicle Technology :  
Live testing and Performance Analysis**  
DATE : 19<sup>th</sup> Feb 2020

Attendance Sheet

S.No	Name	FN	AN
1.	PRAVEEN KUMAR . R	R.praveen	R.praveen
2.	PRASANNA VENKATESH . M	M. Prasanvesh	M. Prasanvesh
3.	NITHISH . M	M.N.	M.N.
4.	SAKTHIVEL . B	B. Sakthivel	B. Sakthivel
5.	VIGNESH . S	S. Vignesh	S. Vignesh
6.	J. Satish .	J. Satish	J. Satish
7.	ARJUN . S . V	S.V. Arjun	S.V. Arjun
8.	HARI PRASAANTH S.P.	H. Prasaanth	H. Prasaanth
9.	MRINAL . M . AJAY	M. Ajay	M. Ajay
10.	JUSTIN REJIMONE	R. Justin	R. Justin
11.	PERUMAL SAMY . S	S. Perumal	S. Perumal
12.	AADITHYABALA . B		
13.	S. Che Ram Chandru	S. Che Ram	S. Che Ram
14.	S. PONSURYA	S. P. S.	S. P. S.
15.	V. AVINASH	V. Avinash	V. Avinash
16.	A. AKIN	A. Akin	A. Akin
17.	T.S. Akash T.S. AKASH	T.S. Akash	T.S. Akash
18.	S. SAHISH KUMAR	S. Sahish	S. Sahish
19.	J. KEERTHIVASAN	J. Keerthivasan	J. Keerthivasan
20.	M. Varun Vignesh	M. Varun Vignesh	M. Varun Vignesh
21.	K. M. NAVEEN	K. M. Naveen	K. M. Naveen
22.	S. Parthasarathy	S. Parthasarathy	S. Parthasarathy
23.	A.M. Vijay Vignesh	A.M. Vijay Vignesh	A.M. Vijay Vignesh
24.	S. Sudarshan	S. Sudarshan	S. Sudarshan



SRI VENKATESWARA COLLEGE OF ENGINEERING  
DEPARTMENT OF MECHANICAL ENGINEERING



25.	DHRUV.S	<i>[Signature]</i>	<i>[Signature]</i>
26.	ASWIN ANIL	<i>[Signature]</i>	<i>[Signature]</i>
27.	R. ANUSRI RAMAN	<i>[Signature]</i>	<i>[Signature]</i>
28.	A. JOEL	<i>[Signature]</i>	<i>[Signature]</i>
29.	KARTHIKEYAN.R	<i>[Signature]</i>	<i>[Signature]</i>
30.	KARTHICKRAJA.V	<i>[Signature]</i>	<i>[Signature]</i>

**Coordinators**

*[Signature]*

**Dr. R. Ramesh**

*[Signature]*

**Dr. C. Senthamarai Kannan**

*[Signature]*

**Dr. S. RAMESH BABU, M.E., Ph.D**  
Professor & Head  
Department of Mechanical Engineering  
Sri Venkateswara College of Engineering  
Pennalur, Sriperumbudur (TK) - 602117.  
Tamilnadu, INDIA.

## **PROGRAMME SUMMARY**

The workshop was organized in association with Atalon Pvt Ltd and Techx Pvt Ltd. Objective of this workshop is to give knowledge on functioning of Electric two wheeler. Importance on tools used for electric vehicle analysis like Vibration testing DAQ, sensors and Power consumption meter are extensively covered in this workshop. Students are provided with Hands on training session on testing and analysis of performance of electric vehicle under different road conditions by Engineers from TechX Pvt ltd. Vibration signals were acquired from different location of a battery powered two-wheeler and the performance is analyzed and discussed with the participants.

**Total number of Participants – 30**

# RESOURCE PERSON FEEDBACK



FT/GN/48/01/10.06.15

SRI VENKATESWARA COLLEGE OF ENGINEERING

FEEDBACK FROM THE SPEAKER - GUEST LECTURE

DEPARTMENT : MEC

Name of the Speaker	: B. R. SATHISH
Designation	: C.E.O
Institution/University/Organisation	: VINAYAK CONSULTANCY
Mobile / E-mail	: 9962803954
Title of the Lecture	: E-Vehicle Clarification
Date	: 19/2/2020
Time	: 9.00 Am to 3:00 pm
Venue	: SVCE
Comments by the Speaker	: Student are more interested to learn the subject, however I feel that connect with your student and hope <del>to</del> they get the knowledge on E-Vehicle
Suggestions for improvement	: Nothing Specific.
Signature of the Speaker	:

Signature of Coordinator 19/02/2020  
[ Dr. R. RAMESH ]

Signature of HOD  
Dr. S. RAMESH BABU, M.E., Ph.D.  
Professor & Head  
Department of Mechanical Engineering  
Sri Venkateswara College of Engineering  
Pennalur, Sriperumbudur (TK) - 602117  
Tamilnadu, INDIA



# PHOTOS OF THE EVENT





**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
(AUTONOMOUS- AFFILIATED TO ANNA UNIVERSITY CHENNAI)  
**DEPARTMENT OF MECHANICAL ENGINEERING**

(Accredited by National Board of Accreditation)

**Feedback Form**

Please take a moment to complete this feedback form. Your comments will assist us in improving our future workshops and seminars.

**PARTICIPANT INFORMATION**

Name: **VIGNESH .S** Name of the Workshop: **One day Workshop on ELECTRIC VEHICLE TECHNOLOGY LIVE TESTING AND PERFORMANCE ANALYSIS**  
Date: **20-2-2020**

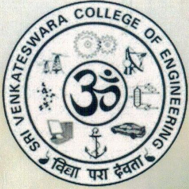
**EVALUATION**

SCALE: 1- STRONGLY AGREE; 2 - AGREE; 3 - NEUTRAL; 4 - DISAGREE

	EVALUATION				Comments
	1	2	3	4	
1. The pre-workshop administration was appropriate and informative.		✓			
2. The workshop was scheduled at a suitable time.		✓			
3. The workshop facilities and location were appropriate and satisfactory.		✓			
4. The workshop material was presented in a clear and organized manner.		✓			
5. The presenter responded to questions in an informative, appropriate and satisfactory manner.		✓			
6. Handouts (if provided) were clear and useful.		✓			
7. Overall, the session was informative and valuable.		✓			
8. In what ways could this workshop have been improved to better suit your needs?					<i>The classes could have been conducted separately for II + III years separately, so that it could have been taken in different styles to both.</i>
9. Would you recommend this session to a colleague?		Yes		No	
10. Please suggest other workshops that would be useful to Students Community					<i>workshop on four wheel drives, (EV)</i>
11. Other comments					<i>The workshop was good overall.</i>

*S. Vignesh*  
Signature

FOR FILING



## SRI VENKATESWARA COLLEGE OF ENGINEERING

(AUTONOMOUS - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)  
PENNALUR, SRIPERUMBUDUR (TK) - 602 117.

DEPARTMENT OF MECHANICAL ENGINEERING



# CERTIFICATE OF PARTICIPATION


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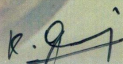
has participated in

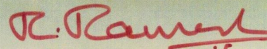
**WORKSHOP ON ELECTRIC VEHICLE TECHNOLOGY :  
LIVE TESTING AND PERFORMANCE ANALYSIS** Conducted  
in association with **ATALON & TECHX**, Chennai

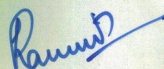
On 19<sup>th</sup> FEBRUARY 2020



  
Mr. Govardhana Giri B.E.,M.B.A.  
Managing Director  
ATALON

  
Mr. Yuvaraj B.E.,  
CEO  
TECHX

  
Dr. R. Ramesh  
Co Ordinator

  
Dr. S. Ramesh Babu  
Convenor - HOD Mechanical