

SAKTHIVEL R AUT <rsakthivel@svce.ac.in>

## Fwd: EXPRESSION OF INTEREST FOR HOSTING THE WORKSHOP OF ELECTRIC TWO WHEELER DESIGN COMPETITION 2024

#### SAKTHIVEL R AUT <rsakthivel@svce.ac.in>

Tue, Oct 3, 2023 at 11:17 AM

To: Nallaperumal SS <perumalnalla8@gmail.com>

Cc: HoD AUT <hodae@svce.ac.in>, GANESH V AUT <vinaganesh@svce.ac.in>, Boobalasenthilraj Aut <boobal@svce.ac.in>

Dear Sir,

Greetings from SVCE.

After our recent discussion, SAE Collegiate Club of SVCE will assist to organize the upcoming Two-Day Workshop in collaboration with SAEINDIA Southern Section for the **Dr. G. Padmanabham Memorial Electric Two-Wheeler Design Competition 2024.** Our team has diligently tailored the workshop to meet your specific requirements, ensuring a successful and impactful event.

- Date 28th and 29th October 2023.
- 1. Seminar Hall with a capacity of 300 (With Audio and Visual aids) for Inauguration/Valediction SVCE Function Hall, Video Hall
- 2. Two classrooms with a capacity of 100 with Audio and Visual aids II, III and IV year AUT Classroom
- 3. Computer lab facility for 100 participants. Placement Cell / Al DS Lab / CS Lab
- 4. Accommodation for participants with food (May collect nominal charge from participants) : 2 days (200 participants, It may vary based on location)
  No Accommodation,
  Food can be Arranged - I Max catering in Hostel Canteen
- 5. Accommodation and food for faculty advisers (Maximum of 30) No Accommodation Collage bus can be Arranged

Food can be Arranged - I Max catering in Hostel Canteen

- Guest room and food for Subject Matter Experts 10 members with local transport: Guest Room can be arranged - 5 experts Two Cars can be Arranged
- 7. Snacks and Tea (morning and evening) for Two days and lunch for 300 participants. **Can be provided under charged basis**

8. Banner and Photography - It can be arranged [Quoted text hidden]

Regards,

#### **R. Sakthivel**

Assistant Professor - Department of Automobile Engineering Sri Venkateswara College of Engineering Pennalur, Sriperumbudur - 602117 Tamilnadu, India

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### DEPARTMENT OF AUTOMOBILE ENGINEERING

## SAE Collegiate Club of SVCE in association with SAEINDIA Southern Section

Organized the National Level Workshop

on

## Dr. G. Padmanabham Memorial Electric Two Wheeler Design Competition (ETWDC) 2024

### **Faculty Advisors**

Dr. V. Ganesh Associate Professor & A.HoD Mr. R. Sakthivel Assistant Professor Mr. A.K. Boobalasenthilraj Assistant Professor & Management Committee Member SAEISS, Oragadam Division

**Patron** Dr. J. Venkatesan, Professor & Head

# CONTENT

- Event Invitation
- Event Agenda
- Inaugral Address
- Tutorial on CAD Modelling
- Fundamentals Of Vehicle Engineering
- Power Train Calculation & Master Layout
- Valedictory Function
- Photography

## **EVENT INVITATION**





& SAE Collegiate Club of SVCE

**SAEINDIA Southern Section** 

solicit your esteemed presence for a Workshop on

### Dr G PADMANABHAM MEMORIAL ELECTRIC TWO WHEELER DESIGN COMPETITION 2024

### Scheduled on

28th & 29th October 2023 9:00 am to 5.00 pm



Inaugural Address Mr. I Meenakshi Sundaram CTO, Amalgamation Group Chief Guest Address Mr. C Varadarajan, Head of R&D (Retd.), TAFE

### ALL ARE CORDIALLY INVITED

Venue

Multi Purpose Hall



(An Autonomous Institution -Affiliated to Anna University, Chennai) SriperumbudurTk -602117,TamilNadu

svce.ac.in



### AGENDA

Invocation	Tamilthai Vazhthu
	Lighting Ceremony
Inaugural Address	Mr. I Meenakshi Sundaram CTO, Amalgamation Group
About SAEISS	Mr. R A Armstrong Director, R A A Associates Pvt Ltd Past Chairman SAEISS
About Dr G Padmanabham Memorial ETWDC	Mr. Nallaperumal S S Champion, Dr G Padmanabham Memorial ETWDC
Chief Guest Address	Mr. C Varadarajan, Head of R&D (Retd.), TAFE
Vote of Thanks	Dr. V Ganesh Associate Professor, Department of Automobile Engg., SVCE



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# **INAUGRAL ADDRESS**

The Department of Automobile Engineering and the SAE Collegiate Club of SVCE of Sri Venkateswara College of Engineering in association with SAEINDIA Southern Section - Oragadam Division recently organized the National Level Two Days Workshop on "Dr. G. Padmanabham Memorial Electric Two-Wheeler Design Competition (ETWDC) 2024" between 28th and 29th October 2023.

The inaugural address featured Mr. I. Meenakshi Sundaram, CTO of Amalgamation Group, and the Chief Guest Address was delivered by Mr. C. Varadarajan, Head of R&D (Retd.) at TAFE. The workshop, meticulously designed for the registered teams, included sessions conducted by experts from SAEINDIA Southern Section, including Mr. Shanmugam (Director, Design Desk India Pvt. Ltd.), Mr. R A Armstrong (Director, RA Associates), Mr. Sriram (Chief Engineer, ZF Commercial Vehicle Control System), Mr. Nallaperumal SS (Systems Architect, Vitesco Technologies), and Mr. Venkateswaran (Deputy Manager, Royal Enfield).





The interactive  $\mathbf{Q}$  & A session that followed the presentation encouraged active participation and knowledge excannge. Attendees enthusiastically posed question and sought clarification from the expert, further enriching their understanding of the tpic.



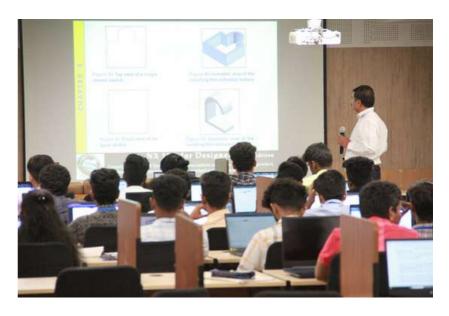




### **TUTORIAL ON CAD MODELLING**

Mr. R A Armstrong speaker started with the fundamentals of Engineering Drawing. He stated the importance of Engineering Drawing on CAD Modelling. Then he begins the tutorial of Siemens NX 12.0 is one of the world's leading CAD/CAM/CAE software. Being a solid modelling tool, it unites 3D parametric features with 2D tools, and also addresses every design through manufacturing process. He guided the participants through step-by-step process of the sketching a model starting from creating document, usage of sketching tool, creating sketches and many more. Also he made students to work on sample exercise and every chapter ends with Self-Evaluation Test so that the participants can assess their knowledge of the chapter. The answers to Self-Evaluation Test are given at the end of the chapter. Also, the review questions and exercises are given at the end of each chapter and they can be used by the instructors as test questions and exercises.

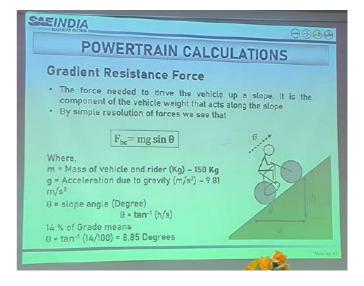




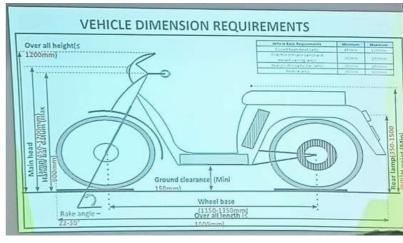
## FUNDAMENTALS OF VEHICLE ENGINEERING

Mr. C Varadarajan, Head of R&D (Retd.), TAFE speaker started with the fundamentals of vehicle engineering. It is a broad field that encompasses various aspects of designing, manufacturing, and maintaining vehicles.The topics like Vehicle Dynamics,materials & manufacturing, safety Engineering,Human Factors and Ergonomic Trends and Innovations in Ev are the topic discussed..

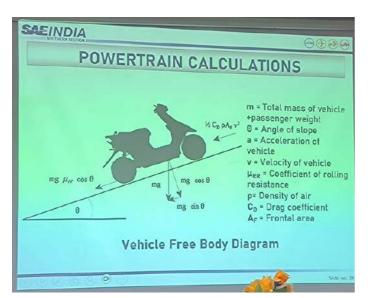


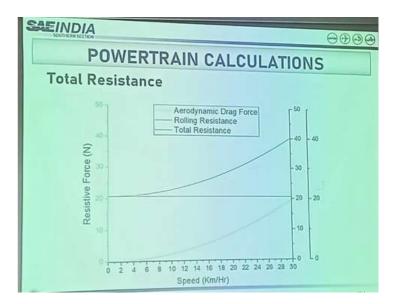




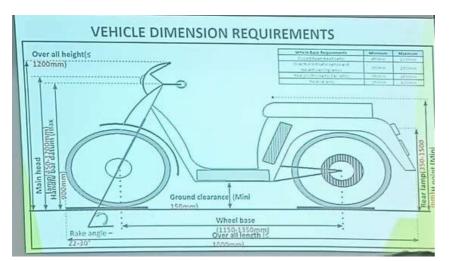


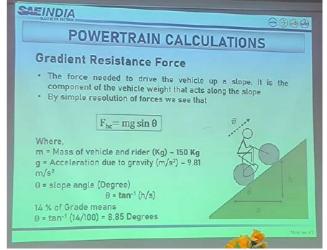
## **POWER TRAIN CALCULATION & MASTER LAYOUT**











## **VALEDICTORY FUNCTION**

During the valedictory function, participation certificates were distributed to the teams by the esteemed chief guests, and it concluded with gratitude expressed by Dr. V. Ganesh, Associate Professor, Department of Automobile Engineering, Sri Venkateswara College of Engineering





The workshop successfully brought together 34 teams, totaling 243 participants from diverse institutions across India. Throughout the event, attendees actively engaged in hands-on sessions, delving into engineering concepts for the design of battery vehicles, power train calculations, CAD modeling, and vehicle engineering. They acquired practical experience in the master layout of electric two-wheelers. The experts from SAEINDIA Southern Section Section shared valuable insights, simplifying complex concepts for accessibility and practical application.



### **EVENT VOLUNTEERS**

Extend heartfelt gratitude to our dedicated student volunteers for their invaluable contributions to the success of the workshops event. The enthusiasm, commitment, and hard work have truly made a lasting impact. Thank you for sharing your time and skills, creating a positive learning environment, and inspiring all participants. Your efforts have played a crucial role in fostering a spirit of collaboration and knowledge-sharing within our academic community.



#### LIST OF PARTICIPANTS - ETWDC 2024

5     ELECTR       6     ELITE S       7     EVVY-24       8     EXCELE       9     G TRON       10     GREEN       11     HINATA       12     MIT MAN       13     PEGASL       14     PHOENI       15     PHOENI       16     PROMET       17     REGENS       18     SAPPHII       19     STELLAR       20     TEAM E       21     TEAM AR       22     TEAM AR       23     TEAM AR       24     TEAM AR       25     TEAM NI       26     TEAM PR       27     TEAM SP       28     TEAM VA       29     THUNDE       30     TRAXION	Team Name	College Name	Team Captain Name	Mobile No.	Team Members
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