

Report on one day workshop “Applications of Electromagnetic Simulation tool for Designing Electric Vehicle Motor”

DATE :9/5/2022 TIME : 10AM TO 12 PM & 2PM TO 4PM

SUBMITTED BY Dr M. Vaigundamoorthi ,Professor/EEE

IEEE -MITS student chapter coordinator(STB64791)



Madanapalle Institute of Technology & Science
(UGC-AUTONOMOUS)
Angallu, Madanapalle

IEEE

**IEEE- MITS Student Chapter in Association with Department of EEE
Organizes
One day workshop on “Applications of electromagnetic simulation
tool for designing electric vehicle motors”**

On 9th May 2022
Timings: 10:00AM to 12:00PM
02:00PM to 04:00PM

Speaker name:
Dr C.Carunaiselvane, Ph.D.(IITR)
SRM University ,Chennai

Chief patron:
Dr. N.Vijaya Bhaskar Chowdary ,Ph.D
Secretary & Correspondent

Execute director:
Mrs.Keerthi

Patron:
Dr.C. Yuvaraj, Ph.D
Principal

Co ordinators:
Dr. A.V.Pavan kumar, Ph.D
(HOD/ EEE)
Dr.M.Vaigundamoorthi, Ph.D

NUMBER OF PARTICIPANTS : 176

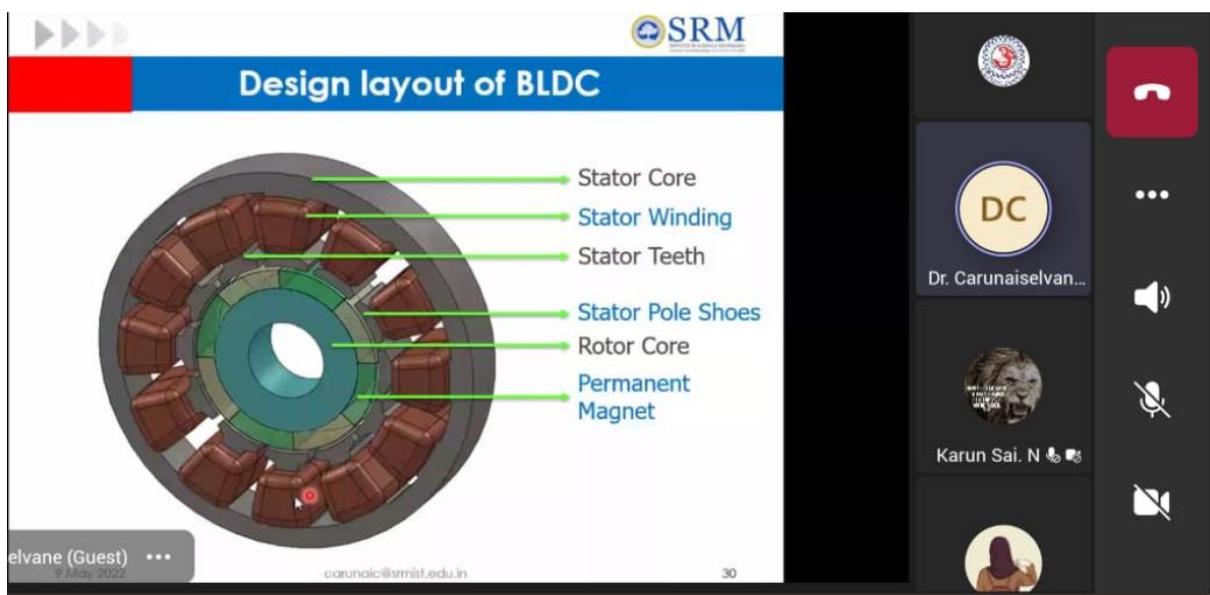
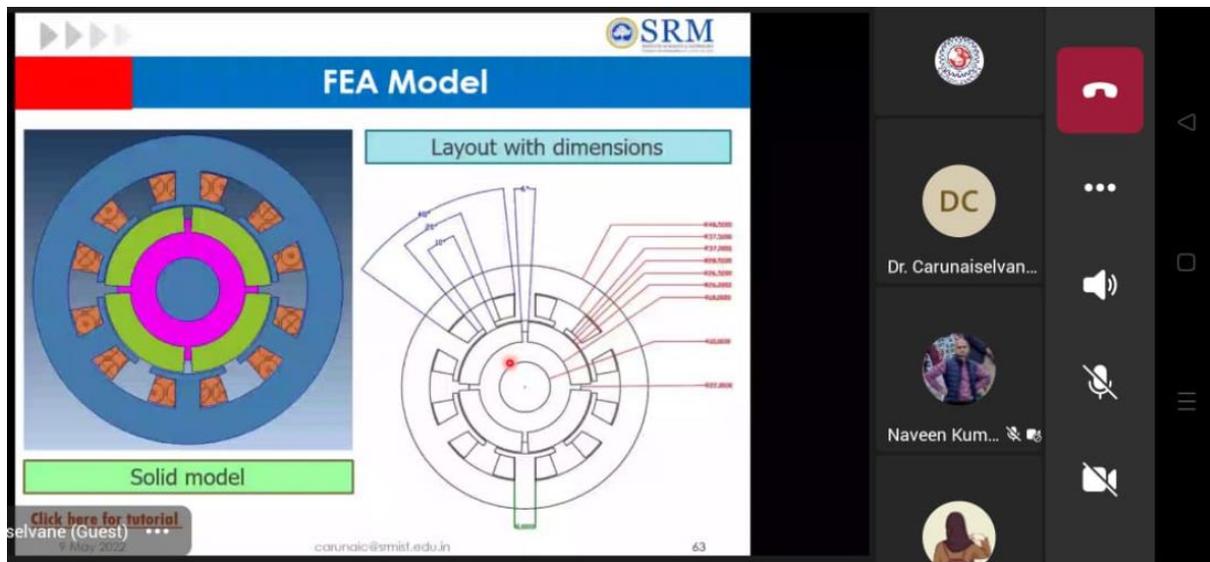
SPEAKER PROFILE : Carunaiselvane Carounagarane (S'16) received the B.Tech. degree in electrical and electronics engineering and the M.Tech. degree in electrical drive and control from Pondicherry Engineering College, Pondicherry University, Puducherry, India, in 2008 and 2012, respectively. He has received the Ph.D. degree from Indian Institute of Technology Roorkee, India in 2020 under the title “Analysis of Large Hydrogenerators Operating at Continuous Overloads”. He is currently working as Assistant Professor with Automobile Engineering Department at SRM Institute of Science and Technology, Chennai, India. From 2008 to 2010, he was an officer grade Electrical Engineer with Larsen and Toubro Pvt. Ltd., India. From 2012 to 2014, he has been an Assistant Professor with the Electrical and Electronics Engineering Department, Sri Manakula Vinayagar Engineering College, Pondicherry University. His research interests include electrical machines, power electronics, machine design, electric vehicle drives and controls, for electric vehicle application. Dr. Carunaiselvane has presented many research papers in various national and international conferences and journals

EVENT DETAILS :

IEEE (MITS STUDENT CHAPTER(STB64791) in Association with Department of Electrical & Electronics Engineering jointly organizes one day workshop on “Applications of Electromagnetic simulation tool for designing Electric Vehicle motor “ on 09-05-2022. Dr M. Vaigundamoorthi ,Professor/EEE ,IEEE - MITS student chapter coordinator & Dr A.V. Pavan Kumar ,HOD/EEE coordinated this one day workshop .

In this one day workshop FN session , the speaker discussed about types of motor used by various Electric Vehicle manufacturers and approval procedure in various organization for the newly designed motors . He explained the advantages of BLDC motors and PMSM over induction motor & DC motors .He also discussed the operation , speed torque characteristics and control procedure for BLDC motor and their suitability for Electric traction . In AN session , He discussed the design procedure of BLDC motor in MAGNET software . He also explained the steps to be followed in design of electric motors in MAGNET software . The participants are downloaded the trial software and trained the use of software in designing the Electrical Machines.

Event Photos:



SRM

Electromagnetic Simulation Tool

About:

- ❖ 2D and 3D models for magnetostatic, time harmonic, transient or transient with motion analysis.
- ❖ Provide accurate field solution – finite element mesh



infolytica
MagNet 6.0.0.0
Version 3.5.0.0
©2016/2017 03-16-2017

- ❖ Machines : AC and DC
- ❖ Actuators
- ❖ Solenoids
- ❖ Loudspeakers
- ❖ Transformers
- ❖ Sensors
- ❖ Recording heads

Dr. Carunaiselvane (Guest) ...
7 May 2022

carunaic@srmit.edu.in

42



Dr Vaigundam...



Krishnatejus...

