



Sarvajanik Education Society
**Sarvajanik College of Engineering &
Technology**

Dr. R.K.Desai Marg,Opp.Mission
Hospital,Athwalines,Surat-3950 01



FACULTY OF ELECTRICAL ENGINEERING

The Institute of Engineers (India)
South Gujarat Local Chapter
and
SCET Students` Chapter
Under the Agies of Department of Electrical Engineering

Expert talk on

“Electrical Vehicle- Emerging field of Transportation”

Speaker Dr. Jignesh Makwana

Date: 3rd October-2020

Time: 10:30 am to 12:00 pm



The Institution of Engineers (India)
South Gujarat Local Center
And
SCET Students' Chapter
Under the Aegis of
Sarvajanik College of Engineering and Technology
Department of Electrical Engineering
Organizing Webinar on

**"Electrical Vehicle - Emerging
field of Transportation"**



Dr. Jignesh Makwana
Founder & Owner of
RhyMak Electronics



Google form Link Registration -
<https://forms.gle/nYTBpUXpP91SMW7>

Date : Oct 03, 2020
Time : 10:30AM - 12:00PM

Chairman IEISGCL
Er. K. H. Shethna

IEI Students' Chapter
Coordinator
Prof. Sharad Patel

Student Conveners
Nevil Italiya - 9106576228
Mansi Pankhi
Sipra Kundu
Urvish Vavadiya

Hon. Secretary IEISGCL
Er. D. G. Patel

Moderator
Prof. Krishna Vakharia

Patrons
Dr. Hiren Patel Principal
Prof. Aditi Hajari H.O.D.



Programme Schedule

Time	Detail
10:30 am to 10:35 am	Opening Remarks by Er.K.H.Shethna, Chairman IEISGCL
10:35 am to 10:40 am	Welcome address by D.G. Patel,Hon.Secretary IEISGCL
10:40 am to 10:45 am	Speaker introduction by Prof. Krishna Vakharia ,Moderator
10:45 am to 11:45 am	Keynote speech by Dr.Jignesh Makwana, Founder & Owner of RhyMak Electronics.
11.45 am to 11.55 am	Discussion and question answer
11:55 am to 12:00 pm	Closing with thanks by Prof. Sharad Patel IEI students` chapter coordinator

Brief credential of Invited Guest Speaker

Dr. Jignesh Makwana has started his academic career in 2004. He received Phd degree in Electrical Engineering with the specialization in power electronics & drive from Indian Institute of Technology Roorkee in 2013. His interest and enthusiasm for teaching & learning, research & development and innovations in all fields lead him as good contributors in academic field and expertise. He has vast academic experience with various reputed universities & institutes. Dr. Jignesh Makwana has international exposure of visiting several countries and representing expertise in field of power electronics converters, artificial intelligence, renewable energy, etc. He published numbers of research papers in international and national conferences and reputed journals. He guided numbers of UG and PG students for their dissertation and project works. He is founder & owner of RhyMak Electronics which involves in design and development of electrical vehicles & accessories and electronic products.

Participation of Students

Faculties and students from various Technical Institutes of Gujarat and Maharashtra have participated in the webinar “Electrical Vehicle-Emerging Field of Transportation”.

The list of various institutes is as below:

Gandhinagar Institute of Technology,
Nirma University,
Shroff S.R. Rotary Institute of chemical technology,
GEC, SURAT, PDPU,
SSAIT, surat,
NIT Surat, ITM University,
L. E. College, Morbi,
Mumbai University,
LDRP INSTITUTE OF TECHNOLOGY AND RESEARCH,
IIT RAM,
Sigma institute of engineering,
CGPIT- UKA TARSADIYA UNIVERSITY,
GEC BHARUCH,
Pandit Deendayal Petroleum University,
Babaria institute of technology Vadodara,
Parul institute of technology

Total Number of Registration: 234

Actual Participation is as below:

83 participants jointed the webinar **through Google Meet.**

230 participants and others availed advantages of the webinar **through SCET YouTube streaming.**

The Guest Speaker explained various topics of Electrical Vehicle as following:

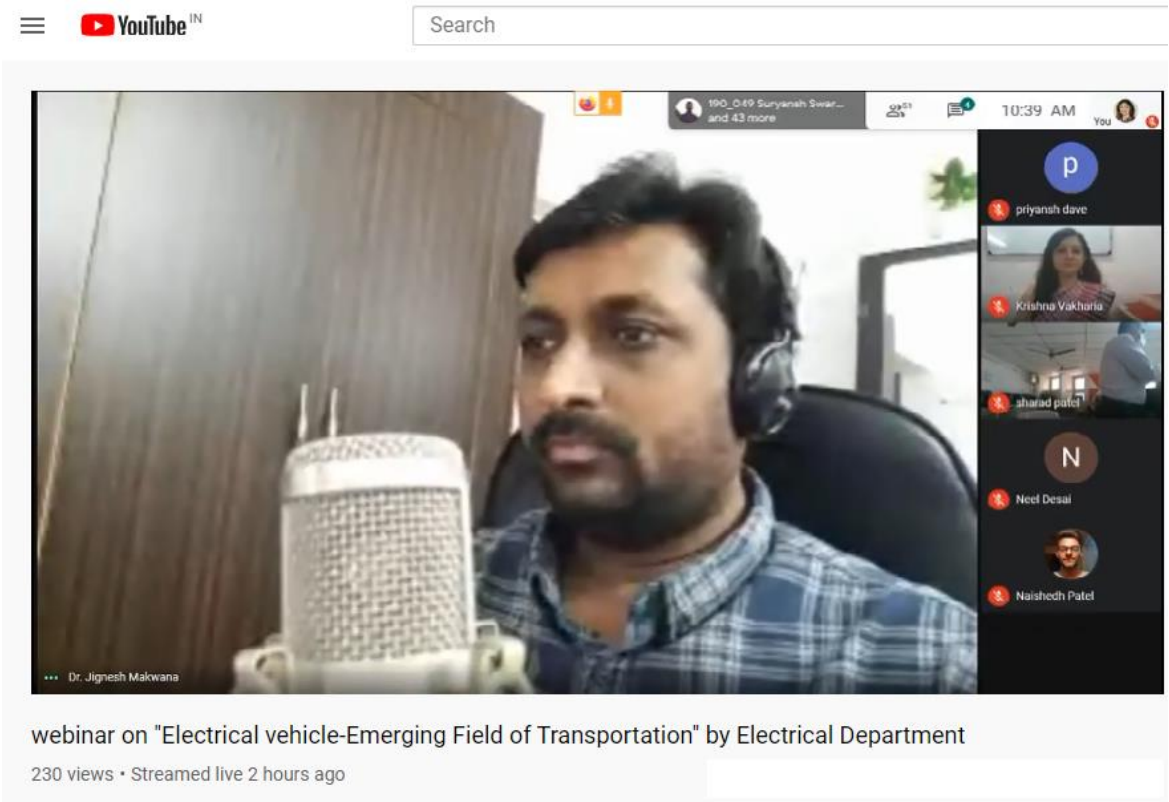
Select vehicle types & divining cycle

EV battery technology analogy with mobile battery technology

Conversion of ICE vehicle to electrical vehicle

EV topology and advantages of EV

Glimpses of the Events:



webinar on "Electrical vehicle-Emerging Field of Transportation" by Electrical Department
230 views • Streamed live 2 hours ago

Dr. Jignesh Makwana, Speaker of the event



Prof. Sharad Patel
IEI students` chapter coordinator



Prof. Krishna Vakharia ,Moderator, IEI students` chapter

Desired characteristics of Vehicle

Select Vehicle Type (Driving Cycle)

- Motorcycle
- Car
- Truck
- Bus

Dr. Jignesh A. Makwana

Miti Patel
Naishedh Patel
Neet Maru
nevil Italiya
Nidhi Patel
Nishwa shah
Patel Neel 092
Pavan Mehta
priyansh dave
Raj Ladha
RAVAL DHAVAL

ICE Vehicle to Electric Vehicles



STAGE 1



Who will put on charge daily?
What if charging get over in between?



STAGE 2

Dr. Jignesh A. Makwana

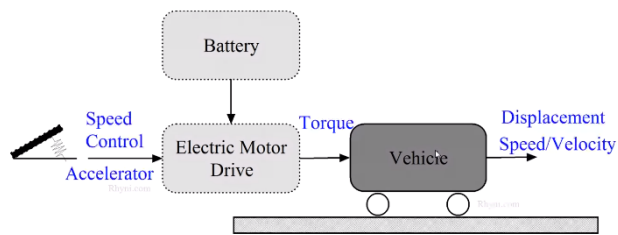
Add people Host controls

Krishna Vakharia (You)
09_Shahil gajjar
13_Nevil Italiya
13_Nevil Italiya
18-09_Gaurav Kacha
190_013_Utkarsh Gandhi
190_045 Chinmay Shukla
190_049 Suryansh Swarnkar
20_Aarya Naik

Meeting participants grid:

- Hamish Gemla...
- priyansh dave
- sharad patel
- kirtikumar Shet...
- Dr. Jignesh Ma...
- 170_048 Neha ...
- Krishna Vakharia
- Nidhi Patel
- Ketan Chaudhari
- Tejal Surati
- Dave Priyesh020
- 09_Shahil gajjar
- 28_Ayushi Patel
- 18-03Mrugesh ...
- Khushi Bambr...
- 18-05_Khyati D...
- Madhusudan S...
- 21_Yoganshi N...
- 20_Aarya Naik
- 18-09_Gaurav K...
- 29_Yashu Sara...
- ADARSH Ghee...
- D2d_03_Faiz Fa...
- Shaikh Mustafa
- D2d_28_Kartik ...
- Patel Neel 092
- Yash Chevli
- Tirth Godhani has left the meeting
- Tanvi Patel
- RAVAL DHAVAL
- Naishedh Patel
- Nishwa shah
- D2d_19_mehzbi...
- nevil Italiya
- Shah Preet

Simplified Block Diagram of Electric Vehicle



Dr. Jignesh A. Makwana

- People (72) Chat (19)
- 18-03Mrugesh Chaudhari
 - 18-05_Khyati Dalal
 - 18-09_Gaurav Kacha
 - 190_013_Utkarsh Gandhi
 - 190_045 Chinmay Shukla
 - 190_049 Suryansh Swarnkar
 - 20_Aarya Naik
 - 21_Yoganshi Nemlawala
 - 22_Mihir lightwala
 - 23_Utsav pandya
 - 28_Ayushi Patel

meet.google.com/ffh-woyt-rpn

REC

Participants:

- You
- Dr. Jignesh Ma...
- Harnish Gemla...
- priyansh dave
- sharad patel
- Ketan Chaudh...
- 39_janmay triv...
- Naishedh Patel
- Tejal Surati
- Hardik Lad
- Dave Priyesh0...
- 09_Shahil gajjar
- 28_Ayushi Patel
- 18-03Mrugesh...
- 01_Vraj Anajw...
- Khushi Bambh...
- Madhusudan ...
- 21_Yoganshi ...
- 20_Aarya Naik
- 18-09_Gaurav ...
- 29_Yashu Sara...
- ADARSH Ghee...
- Shaikh Mustufa
- D2d_28_Kartik...
- Patel Neel 092
- Yash Chevli
- Shivam Khatri
- Tanvi Patel
- RAVAL DHAVAL
- Nishwa shah
- D2d_19_mehz...
- nevil Italiya
- BhavYESH Praj...
- D2d_03_Faiz F...
- Kisan Kanani
- 30_Deep Patel
- 23_Utsav pan...
- Sipra Kundu
- Darshil Khatri
- Shah Devansh

Expert Talk on Electrical Ve... Turn on captions Present now