



SSIP ONE DAY WORKSHOP ON ELECTRIC VEHICLES: DEVELOPMENT & COMMERCIALIZATION

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Date : 13th February 2020

Time : 09:30 am To 04:00 pm

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Event: : workshop

SSIP-CELL, GOVERNMENT OF GUJARAT
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SSIP ONE DAY WORKSHOP REPORT

ON

ELECTRIC VEHICLES: DEVELOPMENT & COMMERCIALIZATION

Date: 13th February 2020 (Thursday)

Workshop Title:	:	Electric Vehicles: Development & Commercialization
Organized By	:	Automobile Engineering Department & Centre of Excellence in Electric Mobility
Supported By	:	SSIP, Gujarat (Student Startup & Innovation Policy)
Name of Invited Speaker	:	Mr. Dhyey Pandya, Technical Officer, ABZO Motors Pvt. Ltd., Gandhinagar.
Chief Guest	:	Dr. Vishal N. Singh, Principal, ADIT Dr. Yashavant D Patel, SSIP Coordinator Dr. Sanjay M. Patel, Head, Automobile Department
Workshop Coordinator	:	Prof. Samarth Shelat
Number Of Participants	:	65 Third & Final Year Students & Faculty Members

Registration:

The One Day Workshop inaugurated with the Registration process on 13th February 2020, 09:30 am. The registration was arranged on the registration desk available at outside of Room Number 141, ADIT for the participants. There are total 65 participants had registered for the One day SSIP Workshop.

Inauguration of Workshop:

The Inaugural Function of the workshop was held on 13th February 2020, 10:00 am. The Workshop program was inaugurated by Dr. Vishal N. Singh, Principal, ADIT College, Dr. Yashavant D. Patel, Chief Guest and SSIP Coordinator, Dr. Sanjay M. Patel, Head-Automobile Department, Workshop Coordinator Prof. Samarth Shelat and 65 Participants. All the dignitaries presented their views about the program. The session was followed by the Key Note address by Dr. Vishal N. Singh and Dr. Yashavant D. Patel on Electric Vehicles and their applications. He had also mentioned that students have an opportunity to making the Electric Vehicles and get a chance to start in Electric Vehicles, which is an emerging technology in the field of Automobile industry.

The technical talk delivered by the experts are as follows:

Speaker profile: Mr. Dhyeya Pandya, Technical Officer, ABZO Motors Private Limited, a Gandhinagar based Electric Vehicle startup. He is alumni of A.D.I.T completed his B.E in 2010, became lecturer in ADIT College for 6 months in 2011, became an entrepreneur of the D Motors (specialized modification shop) in 2013, has completed his M.E in automobile from Parul University in 2015, worked as Technical Officer in Ashok Leyland in 2019.

The session was then continued by Mr. Dhyeya Pandya who began with an introduction to what Electric Vehicle is and how important it is going to be in the near future. Following which, Mr. Dhyeya shed light on the benefits and drawbacks of using Electric Vehicles and how effectively it is being used by the consumers.

He also mentioned that, Automobiles Industry now-a-days, Market Leaders, Latest trends and challenges, Spectrum Shift towards Electric dream and hurdles with its solution, Different Ways to replace conventional IC engines, how to come up with EV, New models of EV, Conversion to EV, How Electric vehicles are different from existing IC engine vehicles, Why world need EVs on road, What is an Electric vehicle, Different development steps like; Market research, Replicability, Design, Prototyping, Testing, Validation, Homologation and finally Ready for market.

After post lunch he speaks about on Electrification of Automotive Industry of India and he also talk about in detail power calculations for Electric vehicles and calculating the total torque required, continuous current required, total time to get battery drained, Maximum distance can be travelled in single charge, he also adding factor of safety with 1, 1.5 and taking different values and see the calculation part. He also talks about Conclusive electrical dimensions to be selected for battery and motors and data calculated on different degree gradient. Also calculating the Power required to overcome aero dynamic drag, rolling resistance in watts, Power required to overcome gradient.

The session ended with a hearty thanks and presenting of a memento to Mr. Dhyeya by Coordinator, Samarth Shelat in appreciation for taking the time out to educate the students on Electric Vehicles. He thanked the Management for providing the platform to organize expert lecture on innovative technologies. He also thanked to SSIP and centre of excellence in electric mobility to conduct the workshop. He appreciated faculty members, student volunteers and participants for the successful conduction of the event.





Thank You.