

**AICTE-ISTE INDUCTION/REFRESHER
PROGRAMMES – 2018-19**

ONE WEEK ONLINE INDUCTION/REFRESHER PROGRAMME On

“ELECTRIC HYBRID VEHICLE”-PHASE-I

(08-02-2021 to 13-02-2021)



REPORT

AICTE -ISTE sponsored online Induction/Refresher Programme on “ELECTRIC HYBRID VEHICLE” Phase- I is organized by Department of Electrical and Electronics Engineering , Sree Vidyanikethan Engineering College (Autonomous), Tirupati, Andhra Pradesh during February 8th -13th, 2021.

The online Induction/Refresher Programme is conducted using the ZOOM platform. A total of 100 participants from 15 states of the country participated in the Programme. The participants are the faculty and research scholars of various engineering colleges and government institutions across the country. Further, the participants are trained by the industry and academic experts. The Induction/Refresher Programme has received an overwhelming response from the participants. A total of 18 sessions are conducted. Out of 18, 16 are technical sessions and one is on “stress management” to promote the FIT INDIA movement across the country.

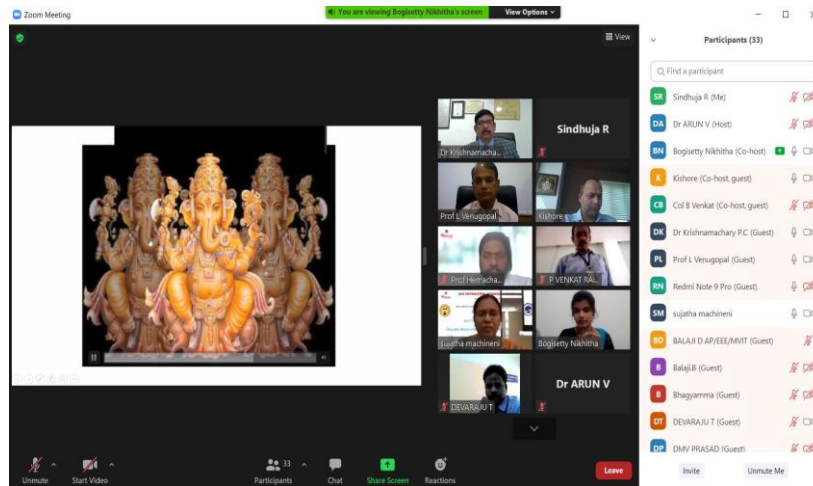
The outcomes of FDP are as follows:

- ❖ Acquire knowledge in hybrid electric vehicle technology.
- ❖ Motivates the faculty members to enhance research work in this area.
- ❖ Idealize different solutions to solve the same problem and evaluate (justifying) which one is the best with respect to its design quality.
- ❖ The programme also promotes a basic understanding of alternative fuel and HEV vehicle technology.

INAUGURAL SESSION

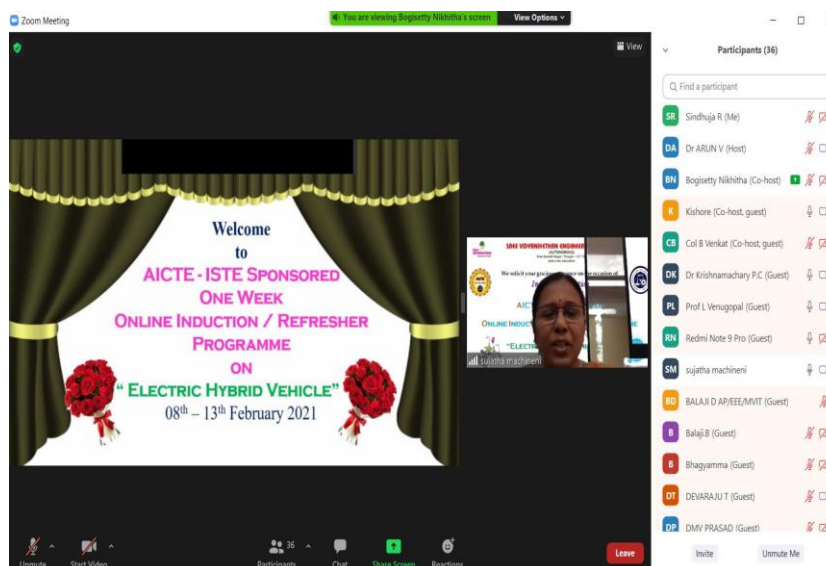
The inaugural function of the online FDP is scheduled on February 8, 2021 at 10:00 AM. In the inaugural function, Ms. R. Sindhuja, Assistant Professor, Department of EEE welcomed the chief guest **Col. B. Venkat**, Director (FDP-AICTE) and **Sri Kishore L M**,

Vice President, BlueBinaries Engineering and Solutions Private Limited, Chennai and Guest of Honor **Prof. L. Venugopal Reddy**, Advisor cum Director, SVET and Principal, directors and vice- principal of SVEC and all participants. The event is started with a prayer song.

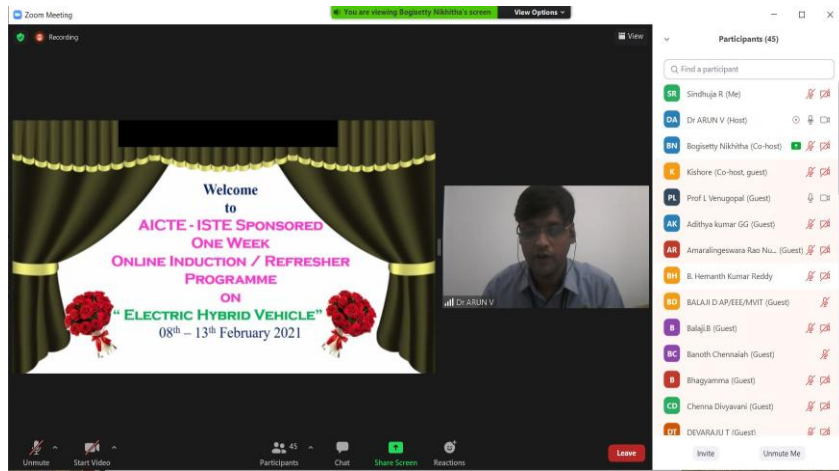


Ms. R. Sindhuja, Assistant Professor, Department of EEE is welcoming the chief guest and the participants and event started with prayer song.

Dr. M.S. Sujatha, Professor and Head, Department of EEE given the welcome speech. In the welcome speech, the Professor and Head, Department of EEE welcomed the chief guest, Guest of Honor, Directors and Principal & vice- principal, of SVEC and all participants and also thanked the ISTE and AICTE sponsored the FDP. Further, Professor and Head, Department of EEE highlighted the objectives of the FDP, the topics to be discussed, the outcomes of the FDP. Later, the coordinator of FDP **Dr. V.Arun**, Associate Professor, Department of EEE introduced the chief guests to the participants.

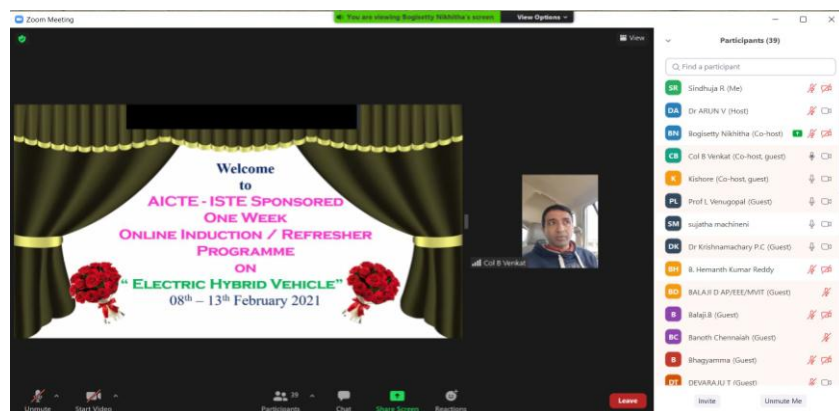


Dr. M. S. Sujatha, Professor & Head , Department of EEE is giving the welcome speech.

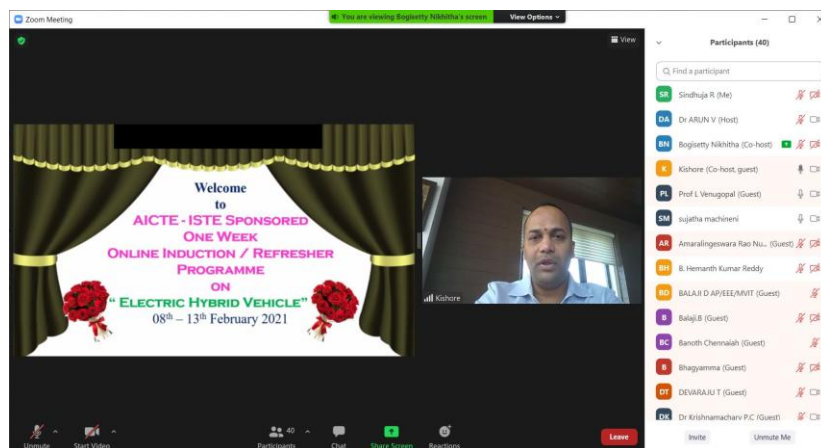


Dr. V. Arun, Coordinator, FDP is introducing the chief guest to the participants.

Col. B. Venkat, Director (FDP), AICTE has emphasized the skills that can gain by the participants after learning the Electric Hybrid Vehicle concepts and Director appreciate the participants and faculties of sreevidyanikethan college to organize this FDP.



Chief Guest **Col. B. Venkat**, Director (FDP), AICTE is addressing the participants.



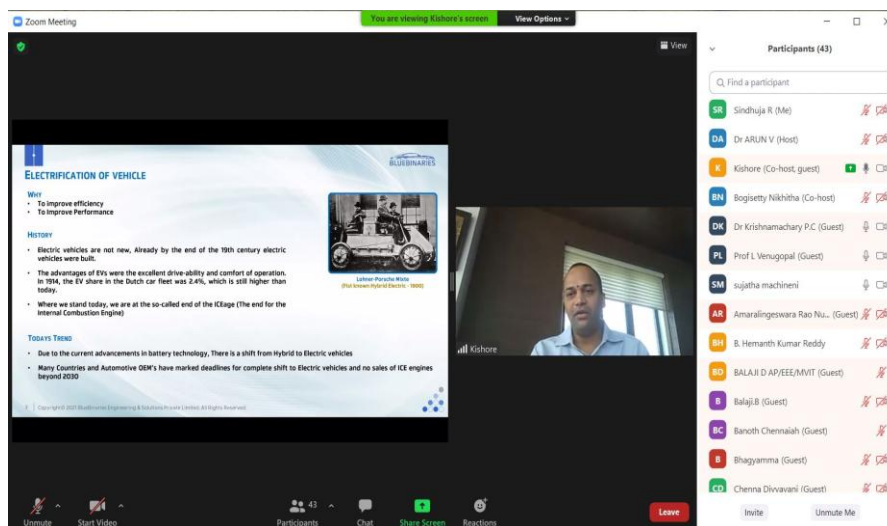
Sri. Kishore L M, Vice president, BlueBinaries Engineering and Solutions Private Limited is addressing the participants.

TECHNICAL SESSIONS

February 8, 2021 (Day – 1, Session – 1)

Sri Kishore L M, Vice President, Blue Binaries Engineering and Solutions Private Limited, Chennai acted as a resource person for first sessions of Day-1 to deliver the lecture about Electrification of Vehicle . The first session of Day-1 is started at 10:00 AM. The participants are gained knowledge on the following concepts.

- Electrification of vehicle
- History of electric vehicle
- Types of electric powered vehicle
- Advancement in battery technology



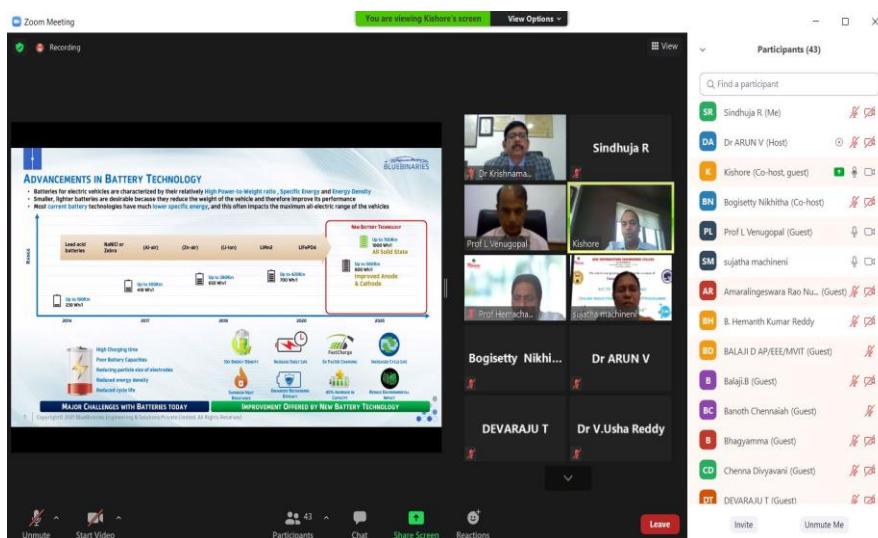
The screenshot shows a Zoom meeting interface. The main window displays a slide titled "ELECTRIFICATION OF VEHICLE" with the following content:

- Why**
 - To Improve efficiency
 - To Improve Performance
- HISTORY**
 - Electric vehicles are not new, Already by the end of the 19th century electric vehicles were built.
 - The advantages of EVs were the excellent drive-ability and comfort of operation, in 1914, the EV share in the Dutch car fleet was 24%, which is still higher than today.
 - Where we stand today, we are at the so-called end of the ICE Age (The end of the Internal Combustion Engines)
- TODAY'S TREND**
 - Due to the current advancements in battery technology, There is a shift from Hybrid to Electric vehicles
 - Many Countries and Automotive OEM's have marked deadlines for complete shift to Electric vehicles and no sales of ICE engines beyond 2030

The slide also includes a small image of an early electric car and a quote: "Lecturer Purusha Krishna (EVs, Renewable Energy, Electric, Energy)".

The Zoom interface shows 43 participants in the right-hand pane, including Sindhuja R (Me), Dr ARUN V (Host), Kishore (Co-host guest), Bogisetty Nikhitha (Co-host), Prof L Venugopal (Guest), sujatha machineni, Amaralingeswara Rao Nu... (Guest), B. Hemanth Kumar Reddy, BALAJI D AP/EEE/MVIT (Guest), Balaji B (Guest), Baroth Chennaiah (Guest), Bhagyamma (Guest), and Chenna Divyavani (Guest).

Sri. Kishore L M , Vice president, BlueBinaries Engineering and Solutions Private Limited is explaining the concept of Electrification of vehicle.



The screenshot shows a Zoom meeting interface. The main window displays a slide titled "ADVANCEMENTS IN BATTERY TECHNOLOGY" with the following content:

- Batteries for electric vehicles are characterized by their relatively high Power-to-weight ratio, Specific Energy and Energy Density
- Smaller, lighter batteries are desirable because they reduce the weight of the vehicle and therefore improve its performance
- Most current battery technologies have much lower specific energy, and this often impacts the maximum all-electric range of the vehicles

The slide also includes a graph showing the evolution of battery technology from 1900 to 2020, with a table of battery types and their characteristics:

Year	Lead Acid	NiMH	Li-ion	LiFePO4
1900	High Energy Density	High Power Density	High Energy Density	High Power Density
1950	High Energy Density	High Power Density	High Energy Density	High Power Density
2000	High Energy Density	High Power Density	High Energy Density	High Power Density
2010	High Energy Density	High Power Density	High Energy Density	High Power Density
2020	High Energy Density	High Power Density	High Energy Density	High Power Density

The Zoom interface shows 43 participants in the right-hand pane, including Sindhuja R (Me), Dr ARUN V (Host), Kishore (Co-host guest), Bogisetty Nikhitha (Co-host), Prof L Venugopal (Guest), sujatha machineni, Amaralingeswara Rao Nu... (Guest), B. Hemanth Kumar Reddy, BALAJI D AP/EEE/MVIT (Guest), Balaji B (Guest), Baroth Chennaiah (Guest), Bhagyamma (Guest), Chenna Divyavani (Guest), and DEVARAJU T (Guest).

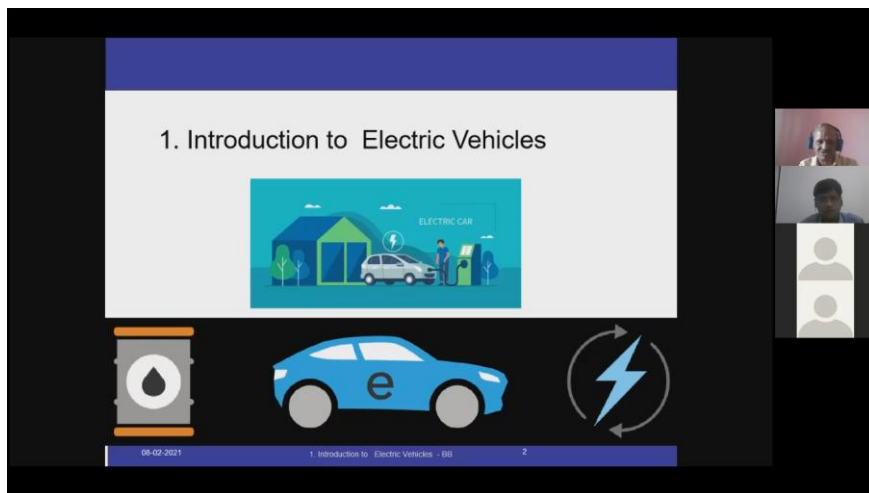
Sri. Kishore L M , Vice president, BlueBinaries Engineering and Solutions Private Limited is explaining about the battery technology

February 8, 2021 (Day – 1, Session – 2 & 3)

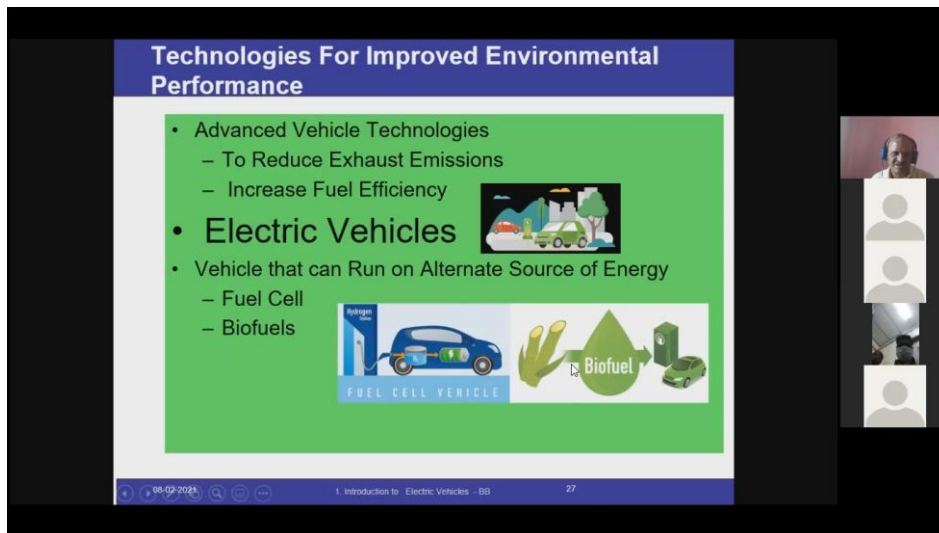
Er. B. Balaji, Rtd., General Manager – Product Development Ashok Leyland Ltd - Chennai, acted as a resource person for Second and Third session of Day-1 to deliver Why Electric vehicles (EVs)? and Types of EVs – HEVs , BEVs , FCEVs.

In this sessions. The participants were introduced with the following concepts.

- Why Electric vehicles (EVs)?
- Introduction to EVs
- Sustainable Transport system
- Pollution from car and other vehicles
- Bharath emission norms
- History of electric cars
- Why E-Mobility
- Importance of Ev
- Types of Evs
- Hybrid electric vehicles
- BEvs
- Charging concepts



Er. B. Balaji, Rtd., General Manager – Product Development Ashok Leyland Ltd deliver lecture about Introduction to Electric Vehicles



Er. B. Balaji, Rtd., General Manager – Product Development Ashok Leyland Ltd is explaining technologies for improved environmental performance

February 9, 2021 (Day – 2, Session – 1 and 2)

Dr. K. Narasimha Raju, Professor and Head, K L University acted as a resource person the first and second session of Day-2. Session is started at 10:00 AM and ended at 1.30 PM. In this sessions, **Dr. K. Narasimha Raju**, explained the Battery Management system.

The participants have gained the knowledge on the following concepts.

- Role of battery management systems for electric vehicle
- Importance of battery in present technology
- Bulk energy storage applications
- Battery specifications
- State of charge
- BMS architecture
- Battery state space model



Dr. K. Narasimha Raju, Brief about Role of Battery Management system for Electric vehicle

3. Battery specifications

Nominal Voltage: The average voltage the cell outputs when fully charged. Cell (nominal) voltage depends on the combination of active chemicals used in the cell.


Capacity (Ah): Specifies the quantity of charge in Ah or mAh a cell is rated to hold when fully charged (represented by symbol Q).

Energy Capacity (kWh): A cell stores energy in electrochemical form, which it can later release to do work.

Nominal energy capacity = Nominal capacity * Nominal voltage

Eg: The specification label of Tesla S3 model is given, calculate its capacity.

Ah = 100kWh/400V = 250 Ah



Department of Electrical and Electronics Engineering

Tuesday, February 9, 2021 13

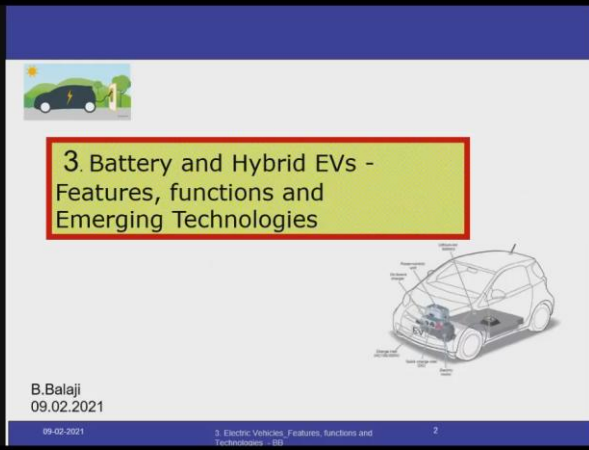
Dr. K. Narasimha Raju, explain about Battery specifications

February 9, 2021 (Day – 2, Session – 3)

The third session of Day-2 is started at 02:30 PM. In this sessions, **Er. B. Balaji**, Rtd., General Manager – Product Development Ashok Leyland Ltd - Chennai, acted as a resource person and he explained EVs – Features, functions, Emerging Technologies

. The participants have gained the knowledge on the following concepts.

- Features, functions, Emerging Technologies
- Electric car components and features
- EV batteries
- EV Traction motor requirements
- Emerging technologies for future trend of electric vehicles

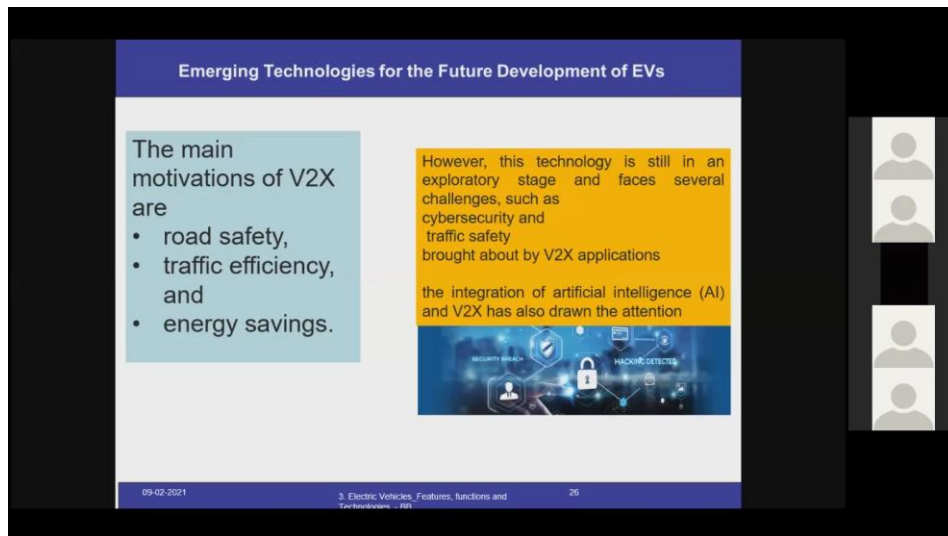


**3 Battery and Hybrid EVs -
Features, functions and
Emerging Technologies**

B. Balaji
09.02.2021

09-02-2021 3. Electric Vehicles_Features, functions and Technologies - 80 2

Er. B. Balaji, Rtd., General Manager – Product Development Ashok Leyland Ltd deliver lecture about features, functions and emerging technologies



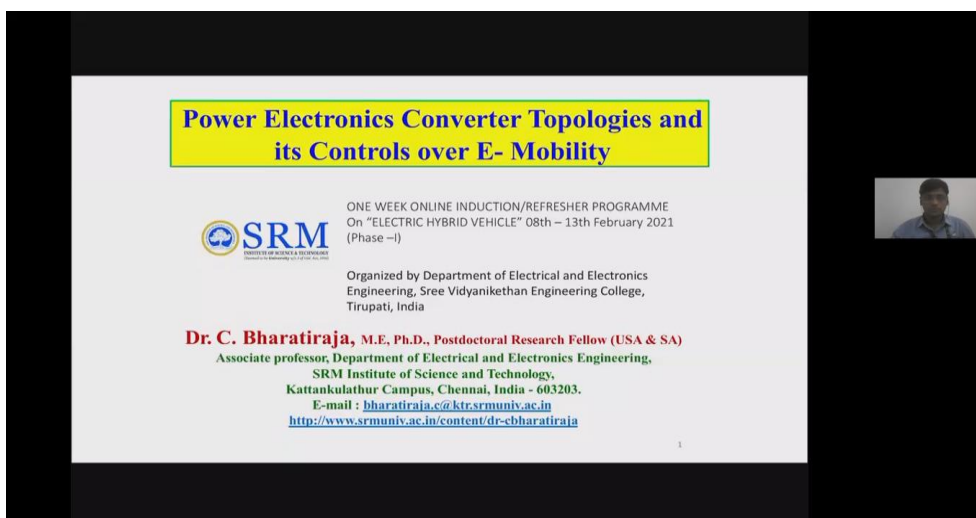
Er. B. Balaji, Rtd., General Manager – Product Development Ashok Leyland Ltd present emerging technologies in Electric Vehicles

February 10, 2021 (Day – 3, Session – 1)

Dr. C. Bharatiraja , Associate professor, SRM institute of science and technology, Chennai acted as a resource person for all the three sessions of Day-2. The first session of Day-3 was started at 10:00 AM.

In this session **Dr. C. Bharatiraja** , explained the Power electronics converter topologies and emobility and implementation. The participants have gained the practical knowledge on the following concepts.

- Converter and inverter topologies and control,
- Different configuration of topologies



Dr. C. Bharatiraja is explaining Power electronic converter topologies and its control over E-Mobility wireless charging concepts

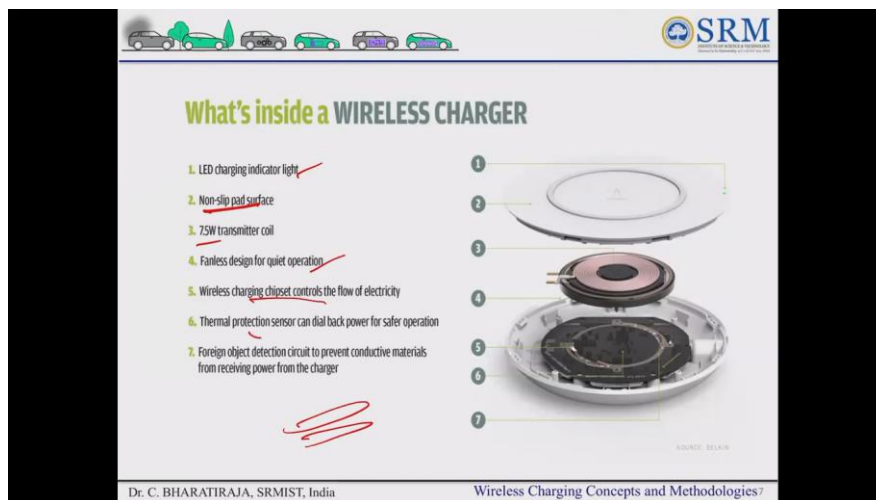
February 10, 2021 (Day – 3, Session – 2)

The second session of the Day-2 was started at 12.30 AM. In this session, **Dr. C.Bharatiraja** has demonstrated the following concepts.

- E mobility
- Wireless charger
- Charging methods



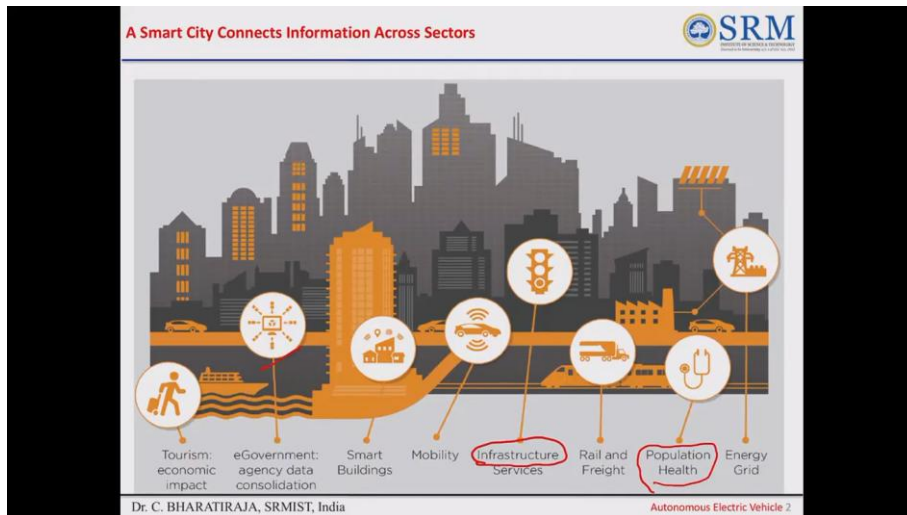
Dr. C.Bharatiraja is explaining Power electronic converter topologies and its control over E-Mobility wireless charging concepts



Dr. C.Bharatiraja is explaining about wireless charging.

February 10, 2021 (Day – 2, Session – 3)

The session was started at 2.30 PM. In this session, **Dr. C.Bharatiraja** has delivered a lecture on PV plants with micro grid concepts, smart city and roll of power converters. He explained the various tags and styles that are used to design micro grid and smart grid. In addition, **Dr. C.Bharatiraja** practically shown the design of wireless charger and EV that help the participants to gain practical knowledge on EV and Charger.



Dr. C.Bharatiraja is explaining smart city.

Dr.C.Bharatiraja, DST BASE Fellow, Power Electronics Research Group.

Objective

- ❖ To Development DC to DC converter for microgrid
- ❖ Indigenous PV panel development

DC to DC converter for microgrid

Indigenous PV panel development

Bhaskara Advanced Solar Energy (BASE) Fellowship, Department of Science and Technology (DST), Govt.of India-Indo-U.S. Science and Technology Forum - 2017

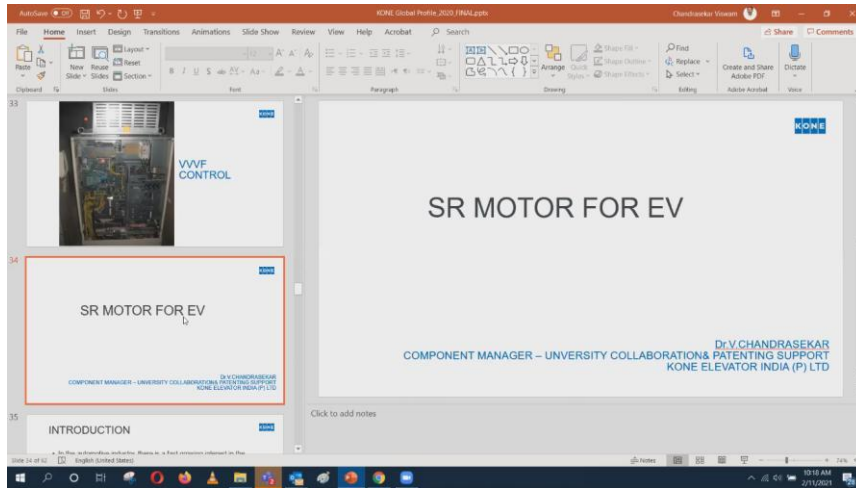
Dr. C.Bharatiraja is demonstarating DC-DC converter and Charger setup..

February 11, 2021 (Day - 4, Session - 1)

The first session of the Day-4 was started at 10:00 AM. **Dr.V.Chandrasekar**, Component Manager, University Collaboration and Patenting , Kone Elevator Pvt. Ltd., Chennai , acted as a resource person for first session of Day-3.

In this session Dr.V.Chandrasekar, explained the motor topologies in electric vehicles. The participants have gained the knowledge on the following concepts.

- SR motors for EV,
- In wheel SR Motor
- SR motor Design
- Mathematical model
- Power circuit for SR motor



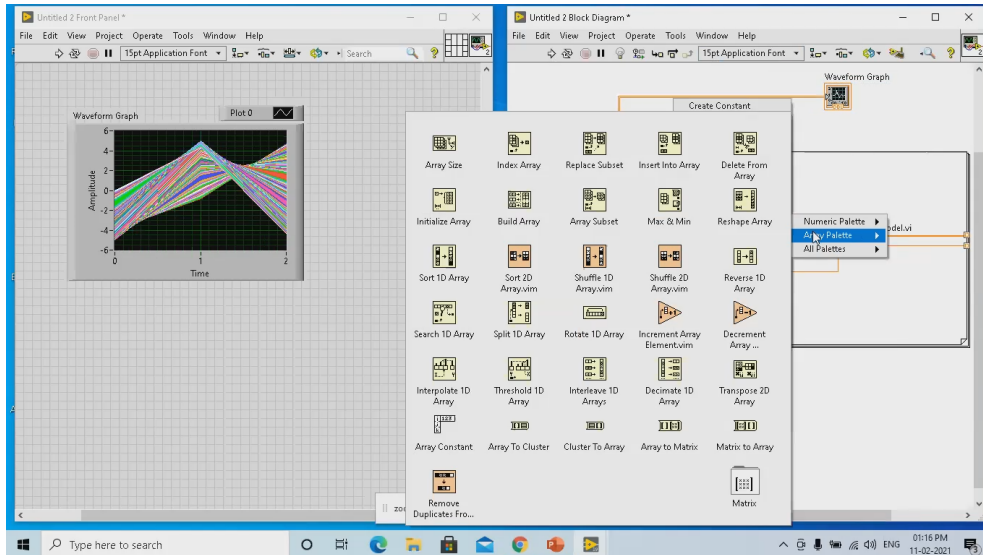
Dr. V Chandrasekar is explaining about SR Motors in EV.

February 11, 2021 (Day – 4, Session – 2 and 3)

The session 2 and 3 of the Day-4 was started at 12:00 Noon. **Er. Raj Kumar**, Senior Application Engineer, Vi Solutions , Bangalore Acted as a resource person. He delivered a session on “ Electric vehicle design test and validation – A graphical approach using lab view”. In addition, **Er. Raj Kumar** explained the converter and control techniques adopted in EV system. **Er. Raj Kumar** demonstrated the simulation system setup shown.



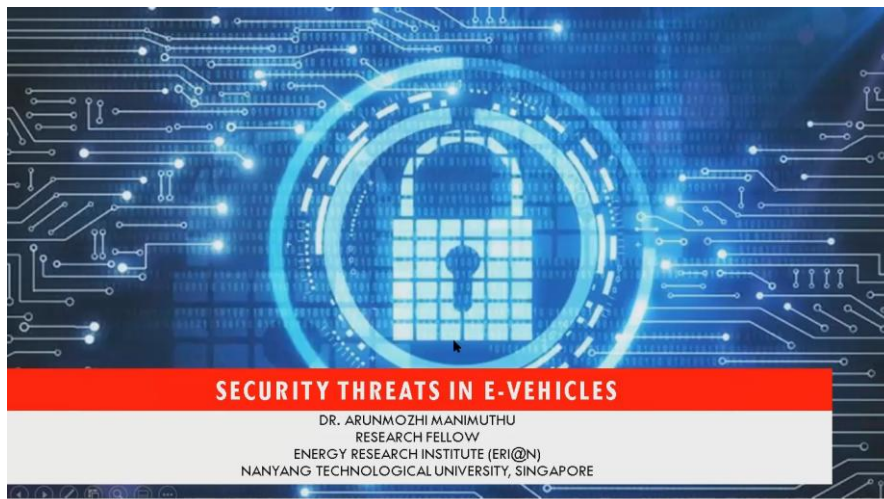
Er. Raj Kumar, Demonstrated Electric vehicle design test and validation – A graphical approach using lab view.



Er. Raj Kumar, Demonstrated Electric vehicle design using lab view.

February 12, 2021 (Day – 5, Session – 1)

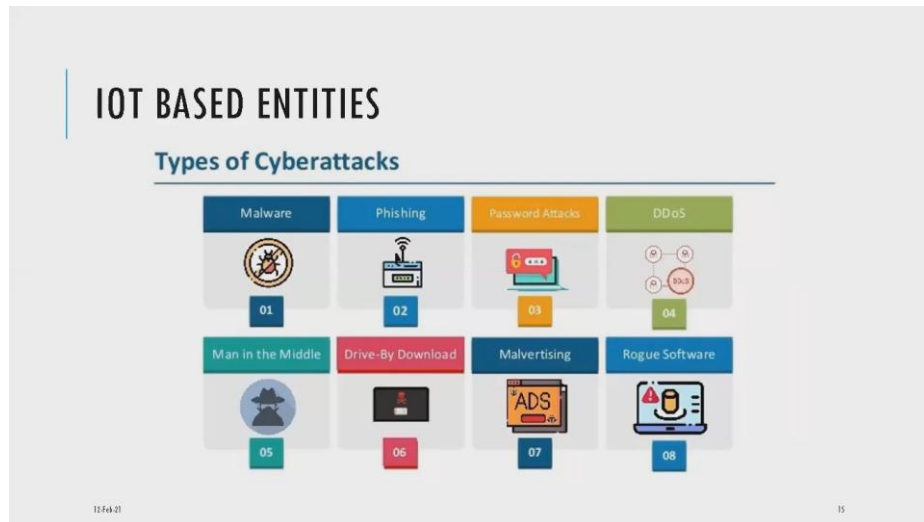
The first session of the Day-5 was started at 10.00 AM. In this session, Dr. Mani Muthu, Research Fellow, Energy Research Institute, NTU Singapore.



Dr. Mani Muthu, is explaining security Threats in E-Vehicles.

He delivered a session on Security threats in E-Vehicles. In this session, the participants have gained the knowledge on the following:

- Cyber-attack.
- Cyber threats
- NIST Framework.
- IOT Based Entities.
- Cyber-attack on wireless communication
- Tesla robo taxi



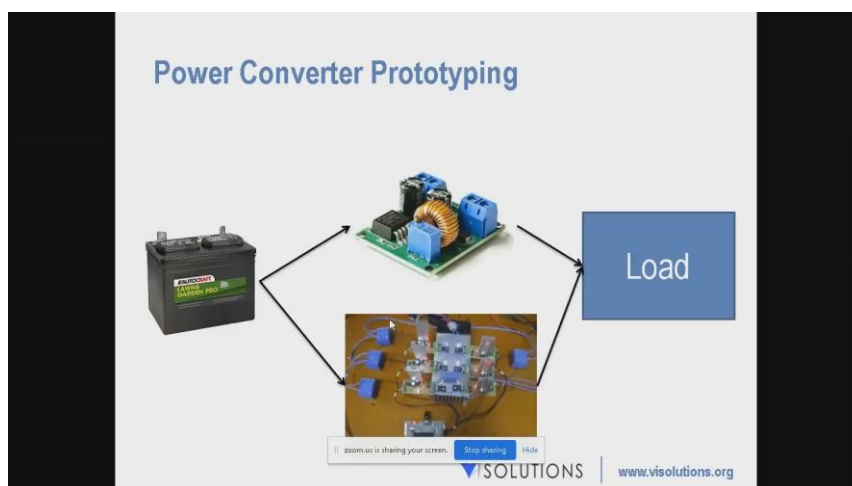
Dr. Mani muthu, is explaining the IoT based entities

February 12, 2021 (Day – 5, Session – 2 and 3)

The session 2 and 3 of the Day-5 was started at 12:00 Noon. **Er. Raj Kumar**, Senior Application Engineer, Vi Solutions , Bangalore Acted as a resource person. He delivered a session on " Power train Design". In addition, **Er. Raj Kumar** explained the converter circuit design. **Er. Raj Kumar** demonstrated the simulation system setup shown.

In this session, the participants have gained the partial knowledge on the following:

- Power converter prototyping.
- Plant control using Multi Sim
- Power converter monitoring and control.
- Design of boost converter using Multisim
- Simulation tools for design
- Simulation Analysis.



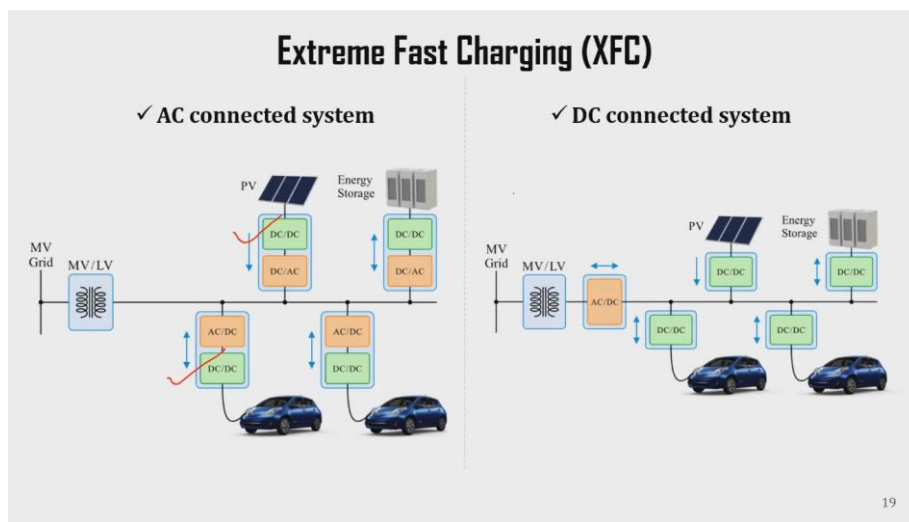
Er. Raj Kumar, is explaining the of Power converter prototyping.

February 13, 2021 (Day – 6, Session – 1)

The session 1 of Day-6 was started at 10:00 AM. In this session, the participants have introduced the concepts roll of power converters in EV. **Dr. N. Prabhakaran**, Associate Professor of EEE, SASTRAI University, Tamilnadu acted as a resource person.

The topics that are discussed in this session are:

- Necessity of EV
- Challenges
- Bidirectional and high step up converter
- Cost benefits
- Application of Power electronics.



Dr. N. Prabhakaran, is explaining Challenges in EV charging.

February 13, 2021 (Day – 6, Session – 2)

The second session of Day-6 was started at 12.00 Noon. As a part of FIT INDIA movement and to promote it across the country, the session on “**Role of Yoga & Meditation For Stress Free Life**” is conducted. This session was delivered by **Sri. Kranthi Yerramsetty**, State Teacher Coordinator, ART OF LIVING.

Sri. Kranthi Yerramsetty, explained the following to the participants.:

- Under standing stress
- Causes of stress
- Stress management
- Yoga and meditation
- Techniques to relax
- How yoga make you relax



Sri. Kranthi Yerramsetty is explaining Stress and life with example



Sri. Kranthi Yerramsetty is Demonstrate the yoga technique

VALEDICTORY FUNCTION

February 13, 2021 (Day – 5, Session – 3)

The valedictory function of online Faculty Development Programme (FDP) on “ELECTRIC HYBRID VEHICLE” was started at 2.00 PM on February 13, 2021. In the valedictory function, **Dr M.S.Sujatha ISTE Coordinator and Dr. S. Prabhakaran** are invited as chief guest.



Dr. M. S. Sujatha, is addressing to the participants



Dr. V. Arun, Coordinator, has proposed a Vote-of-Thanks.

Initially, the coordinator thanked the Core team of AICTE and ISTE for sponsoring the FDP to organize at national level and also for their suggestions, support and guidance to conduct the FDP. Later, he thanked the participants of various engineering colleges and government institutions across the country for their enthusiastic participation. At the end, he conveyed his heartfelt thanks to the management, Sree Vidyanikethan Engineering College (Autonomous), Tirupati, Andhra Pradesh, the Principal, Head of the Department, EEE, Dr. S.Prabhu, Co-coordinator for their constant support to make this event a grand success.

LIST OF PARTICIPANTS

S. No.	Name of the Participant	Email Id.	Mobile No.
1.	V AMARNATH REDDY	amar203eee@gmail.com	8500873626
2.	A.Udhaya kumar	udhayakumara.eee@mkce.ac.in	8667765741
3.	Achie Malviya	malviyaachie@gmail.com	8871180875
4.	Amritha Surasangu	amritha2507@gmail.com	9445139736
5.	ARUL PRAKASH J	arul.jce@gmail.com	9840721704
6.	Arun Chakravarthy R	arunchakravarthy77@gmail.com	9790685877
7.	B BHAGYAMMA	bhagi.bhagya@gmail.com	8985270382
8.	B MUNILAKSHMI	munilakshmib9@gmail.com	8143656362
9.	B V Arun Kumar	venkatarun206@gmail.com	9492404126
10.	BALAJI D	balajieee@mvit.edu.in	9944161030
11.	CH. Swapna	swapna.chidipotu@gmail.com	8498836256
12.	CHENNAIAH BANOTH	banoth.chennaiah@gmail.com	9704597071
13.	D Anjan Kumar Reddy	anjankumarreddy.d1@svcolleges.edu.in	9885883872
14.	D SREENIVASULU REDDY	sreenivasulu.d@res.christuniversity.in	9849175971
15.	D VENKATABRAMHANAI DU	dvb.naidupeed@gmail.com	9959992470
16.	Deepa S U	deepasu779@gmail.com	7406181983
17.	DIVYA VANI CHENNA	chennadivyaivani123@gmail.com	7989775472
18.	DMV PRASAD	DMVPRASADDMV@GMAIL.COM	9701591353
19.	Dr A V Pavan Kumar	pawanrao82@gmail.com	9848615466
20.	Dr CHANCHAL KUMARI	drchanchalkumari@gmail.com	7979725293
21.	Dr J S BINOJ	binojlaxman@gmail.com	8754379212
22.	Dr SURESH BABU DARAM	sureshbabudaram@gmail.com	9100230077
23.	Dr V.Usha Reddy	ushareddy.vyza@gmail.com	94411 16445
24.	Dr. Amit Ved	amit.ved@marwadieducation.edu.in	9925148051
25.	Dr. M. SAKTHIVEL	Sakthisalem@gmail.com	9790022639
26.	Dr. M. VIJAYAKUMAR	mvijayksrce@gmail.com	9842610588
27.	Dr. MANIKANDAN NATARAJAN	manikandan@vidyanikethan.edu	9688760960
28.	Dr. P. Hema Chandu	hemachandu@sasi.ac.in	9640512241
29.	Dr. R. SANKARGANESH	rsankarganesh12@gmail.com	9786930130
30.	Dr. S. Sarojini Mary	sarojinisamikannu@gmail.com	9790618468
31.	Dr. S. Seralathan	siva.seralathan@gmail.com	9444967008
32.	Dr. T. V. V. SATYANARAYANA	satya.tvv@gmail.com	9866684754
33.	Dr. V. Venkatesh	vvvsh1986@gmail.com	9994638261
34.	Dr. V.Krishnakumar	v.krishnakumarsjce@gmail.com	9944235136
35.	DR. VIPIN KUMAR	vipinkumar@theglobaluniversity.in	9927779157
36.	Dr.Arijit Bardhan Roy	arijtmtech@gmail.com	9163983301
37.	Dr.Arulkumar K	karuleee@gmail.com	9994822651
38.	Dr.B.Suresh Kumar	bsureshkumar_eee@cbit.ac.in	9849396814
39.	Dr.C.Kumar	ckumarme81@gmail.com	9994942022
40.	Dr.E.BRINDHA	drbrindha.e@kahedu.edu.in	8754232399
41.	Dr.E.Kiran Kumar	endala.kirankumar@gmail.com	8978248063
42.	Dr.J.Leema Rose	leemarose@gmail.com	9486344275
43.	Dr.M.Arun	arunkset@gmail.com	9442419876
44.	Dr.M.Ramasamy	ramasamyksrce@gmail.com	9715614317

45.	Dr.M.S.Sujatha	sujatha.ms@vidyanikethan.edu	9441381878
46.	Dr.P.Nagasekhar Reddy	pnsreddy_eee@mgit.ac.in	8886901465
47.	Dr.P.Sebastian Vindro Jude	jude.panimayam@srec.ac.in	9524576685
48.	Dr.S.Senthil Kumar	sentilkumaar@gmail.com	9865523385
49.	Dr.T.Sengolrajan	sengolmaha@gmail.com	9629172711
50.	GALLA GIRESH ADITHYA KUMAR	adithyakumar149251@gmail.com	7013457631
51.	GAMPALA SUMAN	gsuman007@gmail.com	9441827001
52.	GUDAVALLI VIJAYA KRISHNA	vijaykrishna.ped@gmail.com	9030258472
53.	H GURUNATH	hgurunath_eee@mgit.ac.in	9666142146
54.	IMMACULIN SHIA S	shiashiva02@gmail.com	9442714453
55.	J.Lydia	lydia.jeec@gmail.com	9994405998
56.	JACOB KURIAN	jacob.kurian@carmelpoly.in	9495314331
57.	K.V.kishore	k.v.kishore288@gmail.com	9966438234
58.	Karthik S	s.karthik014@gmail.com	7406577043
59.	KBbindhu	kattamanchibindu@gmail.com	9440625432
60.	KUMARESAN P	apjitech@gmail.com	9597403135
61.	M Murali	murali.epe@gmail.com	9493628763
62.	M V Bramhananda Reddy	bramha.mv@svcolleges.edu.in	7673961125
63.	Mr D Sivakumar	74siva@gmail.com	9705506966
64.	Mr KUKKAMBAKAM CHANDRA SEKHAR	sekharc333@gmail.com	9440397524
65.	Mr. A. SREENIVASULU	sreenivasulu136@gmail.com	8019393948
66.	Mr. B. Subba Reddy	subbareddy.b@vidyanikethan.edu	9985606700
67.	Mr. B.Pavan Kumar Reddy	pavankumar.eee216@gmail.com	9502611774
68.	Mr. BANDI SAI KRISHNA	saikrishnauce@gmail.com	8074570114
69.	Mr. Birudala Venkatesh Reddy	eeebvr@gmail.com	7032416637
70.	Mr. Chetan Jaiswal	chetanjaiswal20@gmail.com	7999793014
71.	Mr. D.Praveen Kumar	praveensvec9@gmail.com	9908753983
72.	Mr. Elisha Undeti	elisha27u@gmail.com	7207401481
73.	Mr. Govindaraj V	govindaraj.v@kce.ac.in	9865651312
74.	Mr. Hans John Dcruz	hansdcruz@ieee.org	9943980500
75.	Mr. M. Manohara	muppirimanohar@yahoo.com	9441331644
76.	Mr. RANJIT ARJUN KATKAR	katkarr76@gmail.com	9561189617
77.	Mr. Ritesh Nagar	rn4777@gmail.com	9827906627
78.	Mr. S Bhargava Reddy	sbhargava.eee@srit.ac.in	9441989369
79.	Mr. S.VINOD	srivinodsri@yahoo.co.in	9444012653
80.	Mr. Sagar B S	sagar.bs14@gmail.com	8861638087
81.	Mr. Sanjeeb Limbu	snjblimbu.hgsg@gmail.com	9435002077
82.	Mr. Shiv Kumar Gupta	anantshiv.gupta@gmail.com	9816081782
83.	Mr. T. Kosaleswara Reddy	kosal@vidyanikethan.edu	9949266787
84.	Mr. V SEKHAR	velappagarisekhar@gmail.com	9701037500
85.	Mr.AMARALINGESWARA RAO NUNE	amarnune@gmail.com	9908876618
86.	Mr.E.KANNAN	eskvlsi@gmail.com	8015136126
87.	Mr.H.Suresh	suresh16666@gmail.com	8904344606
88.	Mr.K.RAJU	rajukuruva@svcolleges.edu.in	8247490988
89.	Mr.P.Kishor	parepellykishore@gmail.com	9948673353

90.	Mr.R.sundaramoorthi	sundar20482@gmail.com	9965156904
91.	Mr.Sivaramkrishnan. M	krishbe95@gmail.com	9629573062
92.	Mr.U.KAMAL KUMAR	kumarkamal41@gmail.com	9949875164
93.	Mr.Yugal Kishor	yugalsahu87@gmail.com	8103095114
94.	MrFarakate Pandurang Ranaba	pandurangf8463@gmail.com	9421206230
95.	Mrs. R Padmavathi	padmavathi.r@rajalakshmi.edu.in	9884567594
96.	Mrs. SOWJANYA D	sowjisowjanyasree@gmail.com	8792465265
97.	Mrs.PL.Revathy	revathy@jerusalemengg.ac.in	9940434676
98.	Ms Kavita Mongia	kmbhatnagar@gmail.com	9811438247
99.	MS. BANASHANKARI HOSUR	hosirbi008@gmail.com	8904970826
100.	Ms. R. Sindhuja	sindhuja.gct@gmail.com	9486944867
101.	Ms. TR Chandni	chandnitr63@gmail.com	7396493063
102.	N.SRIDHAR	sridharn@mits.ac.in	9994206319
103.	NISHI SINGH	Nishi.20.singh@gmail.com	7746857970
104.	P L HARSHA VARDHAN	pl.harshavardhanbtech@gmail.com	8125969002
105.	P VARAPRASAD REDDY	varaprasad.vbit@gmail.com	7702406349
106.	P.S.Maheswari	mahe_rini@yahoo.co.in	9993000564
107.	PRADEEP KHANNA	p230475KH@gmail.com	9826156633
108.	Prof Praveen Math	praveen6.math18@gmail.com	9632408454
109.	Prof.G.G.RAJA SEKHAR	rsgg73@gmail.com	9704082285
110.	Raja Chourasia	chourasiaraja49@gmail.com	8250348214
111.	Rajalakshmi Pasupuleti	rajeepasupuleti@gmail.com	9030117574
112.	S Md Moin	moinmohammed786@gmail.com	9490211224
113.	S PRAVEEN KUMAR	praveenkuma.s@vidyanikethan.edu	8099232981
114.	S.RUDHRA	rudhra@jerusalemengg.ac.in	9442069459
115.	SATHEESHKUMAR K	skysatheesh@gmail.com	9443567941
116.	SHAIK GOUSE BASHA	gousebashask001@gmail.com	9505156251
117.	SHRADHANJALI PANDA	shradhacet@gmail.com	9439485158
118.	Sivagami P	sivagamitec@gmail.com	9789818578
119.	Suresh Srinivasan	suresh78.balu@gmail.com	9994281741
120.	UMESH ABBIGERI	cimenglish21@gmail.com	8762835430
121.	V Lakshma Naik	laxman.v711@gmail.com	9704801121
122.	V Swetha	veligaramswetha@gmail.com	8333024052
123.	Venkatachalam K M	kmvpeee@gmail.com	7845464300
124.	Venkateswara Rao Thorlikonda	venkat.thorlikonda@gmail.com	8008611762
125.	VIGNESHBABU V	ve.vigneshme@gmail.com	9500999083
126.	Y VIJAYA SAMBHAVI	yvijayashambhavi1@gmail.com	8142149882
127.	Yaramasu suribabu	ysuribabu@gmail.com	9490788764

LIST OF CERTIFIED PARTICIPANTS

S. No.	Name of the Participant	Email Id.	Marks obtained
1.	A MAHESH	maheshajmeera89@gmail.com	60 / 100
2.	A.Udhaya kumar	udhayakumara.eee@mkce.ac.in	85 / 100
3.	Arun	arunmsc.m@gmail.com	60 / 100
4.	Ayapu Nagendra Babu	dhanalakshmvilas228@gmail.com	65 / 100
5.	Besta bhagyamma	bhagi.bhagya@gmail.com	90 / 100
6.	Birudala Venkatesh Reddy	eeebvr@gmail.com	95 / 100
7.	BUDDABATTINA NARASIMHARAO	narasimhara0536@gmail.com	65 / 100
8.	CHENNAIAH BANOTH	banoth.chennaiah@gmail.com	60 / 100
9.	D Anjan Kumar Reddy	anjankumarreddy.d1@svcolleges.edu.in	65 / 100
10.	D VENKATABRAHMANAIDU	dvb.naidupeed@gmail.com	75 / 100
11.	Dr V.Usha Reddy	ushareddy.vyza@gmail.com	85 / 100
12.	Dr. Amit Ved	amit.ved@marwadieducation.edu.in	90 / 100
13.	Dr. B. Senthil Kumar	senb2002@gmail.com	65 / 100
14.	Dr. Leemarose	leemarose@gmail.com	65 / 100
15.	Dr. M.Sakthivel	sakthisalem@gmail.com	80 / 100
16.	Dr. MANIKANDAN NATARAJAN	manikandan@vidyanikethan.edu	95 / 100
17.	Dr. R Arun Chakravarthy	arunchakravarthy77@gmail.com	65 / 100
18.	Dr. R. SANKARGANESH	rsankarganesh12@gmail.com	95 / 100
19.	Dr. T. DEVARAJU	devaraj@vidyanikethan.edu	95 / 100
20.	Dr. V SEKHAR	velappagarisekhar@gmail.com	65 / 100
21.	Dr. V. V. Satyanarayana Tallapragada	satya.tvv@gmail.com	80 / 100
22.	Dr.Arulkumar K	karuleee@gmail.com	95 / 100
23.	Dr.M.Arun	arunkset@gmail.com	65 / 100
24.	Dr.M.Ramasamy	ramasamyksrce@gmail.com	100 / 100
25.	Dr.M.Vijayakumar	mvijayksrce@gmail.com	95 / 100
26.	Dr.S.GANESH KUMARAN	ganeshphd4u@gmail.com	90 / 100
27.	Dr.S.senthilkumar	sentilkumaar@gmail.com	65 / 100
28.	Dr.V.Krishnakumar	v_krishnakumar@ymail.com	65 / 100
29.	GUDAVALI VIJAYA KRISHNA	vijaykrishna.ped@gmail.com	75 / 100
30.	Kumar C	ckumarme81@gmail.com	95 / 100
31.	M.S.Sujatha	sujatha.ms@vidyanikethan.edu	95 / 100
32.	Mr D SIVAKUMAR	74siva@gmail.com	60 / 100
33.	Mr. A. SREENIVASULU	sreenivasulu136@gmail.com	65 / 100
34.	Mr. Abhijit Hindurao Kumbhar	kumbharabhijit162@gmail.com	60 / 100
35.	Mr. B. Subba Reddy	subbareddy.b@vidyanikethan.edu	60 / 100
36.	Mr. BALAJI D	balajiee@mvit.edu.in	100 / 100
37.	Mr. BANDI SAI KRISHNA	sai Krishnauce@gmail.com	60 / 100
38.	Mr. D M V PRASAD	DMVPRASADDMV@GMAIL.COM	60 / 100
39.	Mr. Elisha Undeti	elisha27u@gmail.com	65 / 100

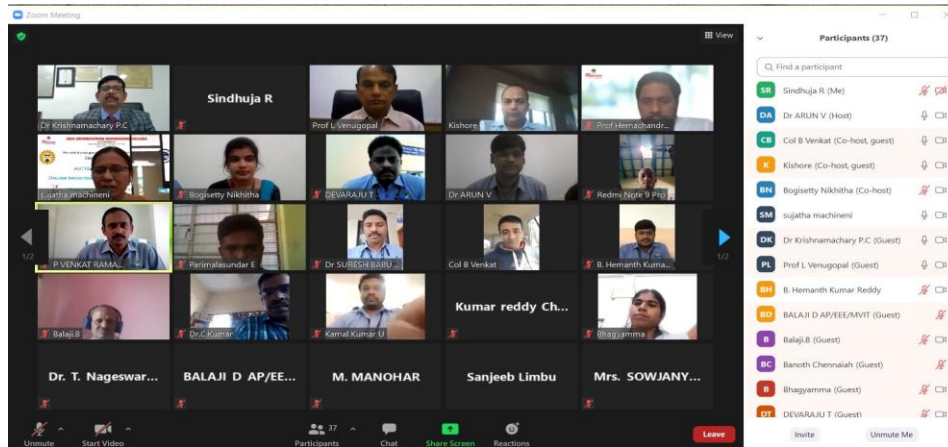
40.	Mr. Hans John Dcruz	hansdcruz@ieee.org	80 / 100
41.	MR. K. SATHEESHKUMAR	skysatheesh@gmail.com	60 / 100
42.	Mr. M. Manohara	muppirimanohar@yahoo.com	80 / 100
43.	Mr. RANJIT ARJUN KATKAR	katkarr76@gmail.com	60 / 100
44.	Mr. Sagar B S	sagar.bs14@gmail.com	60 / 100
45.	Mr. Sanjeeb Limbu	snjblimbu.hgsg@gmail.com	60 / 100
46.	Mr. SHAIK GOUSE BASHA	gousebashask001@gmail.com	65 / 100
47.	Mr. Yaramasu Suribabu	ysuribabu@gmail.com	70 / 100
48.	Mr. Yugal Kishor	yugalsahu87@gmail.com	60 / 100
49.	Mr.AMARALINGESWARA RAO NUNE	amarnune@gmail.com	65 / 100
50.	Mr.E.KANNAN	eskvlsi@gmail.com	95 / 100
51.	Mr.KARTHIK S	s.karthik014@gmail.com	65 / 100
52.	Mrs R PADMAVATHI	padmavathi.r@rajalakshmi.edu.in	65 / 100
53.	Mrs. SOWJANYA D	sowjisowjanyasree@gmail.com	70 / 100
54.	Ms. R. Sindhuja	sindhuja.gct@gmail.com	85 / 100
55.	P L HARSHA VARDHAN	pl.harshavardhanbtech@gmail.com	60 / 100
56.	P.S.Maheswari	mahe_rini@yahoo.co.in	65 / 100
57.	PRADEEP KHANNA	p230475KH@gmail.com	60 / 100
58.	Prof. PRAVEEN MATH	praveen6.math18@gmail.com	60 / 100
59.	Raja Chourasia	chourasiaraja49@gmail.com	65 / 100
60.	S.PRAVEEN KUMAR	praveenkuma.s@vidyanikethan.edu	65 / 100
61.	Sivagami P Ms	sivagamitec@gmail.com	65 / 100
62.	V Swetha	veligaramswetha@gmail.com	90 / 100
63.	Y VIJAYA SHAMBHAVI	yvijayashambhavi1@gmail.com	70 / 100
64.	Dr.N.M.G.kumar	nmgkumarphd@gmail.com	70/100

LIST OF PARTICIPANTS NOT ELIGIBLE FOR CERTIFICATION

S. No.	Name of the Participant	Email Id.	Marks obtained
1.	Prof.G.G.RAJA SEKHAR	rsgg73@gmail.com	40/100
2.	Dr.T.Sengolrajan	sengolmaha@gmail.com	55/100

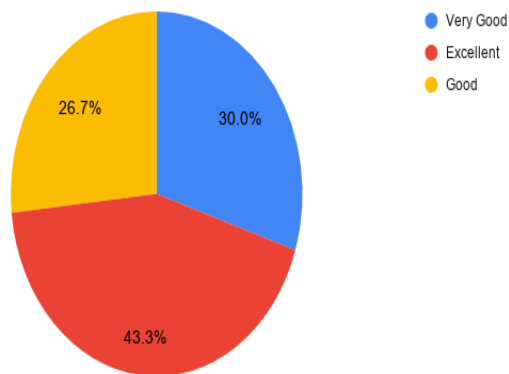
FEEDBACK

The Feedback that is congregated from the participants using a Google form is summarized using a Pie chart. A pie chart depicts the feedback on a percentage.

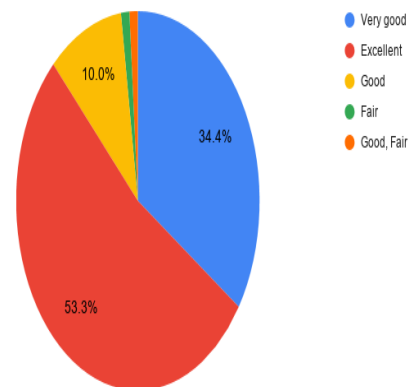


. Participants sharing their feedback

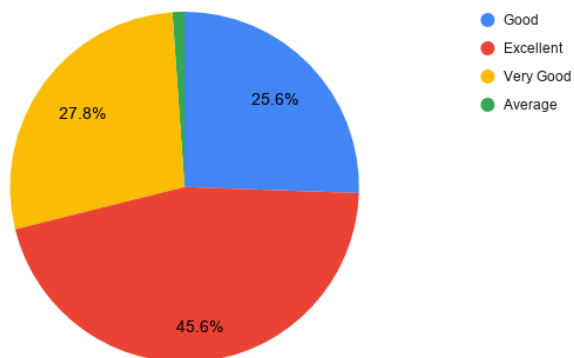
Count of Technical Content of the Induction/Refresher programme



Count of How would you rate the overall Programme?



Count of Information shared during the programme



V.ARUN

Coordinator

Department of EEE

Sree Vidyanikethan Engineering College (Autonomous)

Tirupati – 517102, Andhra Pradesh