

**A Report on
Faculty Development Program (FDP) on
“Automobile Engineering: Past, Present & Future”
Date: 21-28 December, 2021 (Six Working Days)**

Sponsored by: AICTE-ISTE



Organised By:

Automobile Engineering Department

Co-ordinator:

**Dr. Sanjay M. Patel
(Head, Automobile Engg.)**

Co Co-ordinator:

Prof. Yagnesh Gambhava



**A. D Patel Institute of Technology
(A Constituent College of CVM University)
New V V Nagar, Gujarat**

Program summary

An ONLINE Faculty Development Program (FDP) on “**Automobile Engineering: Past, Present & Future**” was organised during **21st to 28th December 2021** (Six Working Days) by Automobile Engineering Department of A.D.Patel Institute of Technology (A Constituent College of CVM University), sponsored by AICTE- ISTE.

The FDP was mainly for the faculty members of Automobile, Mechanical and other allied branches of degree & diploma engineering colleges. The program included expert lectures delivered mainly by Industry experts from the respective domain who had given a flavour of the academic research activities happening in the domain of Automobile engineering.









Total 100 participants have been registered with their consent for this FDP through online google form. All the sessions were conducted through online mode with Google Meet platform. Quiz of 5 questions was conducted from first to fifth day (every day), and 50 marks quiz was conducted on the last day of FDP, i.e. on 28th December, 2021. As per the ISTE-AICTE guidelines those who achieved 80% attendance and 60% marks in test quiz, are eligible to get certificate of participation. In spite of 100 registered participants, as per the AICTE-ISTE guidelines regarding attendance & quiz, 83 participants have successfully completed the Faculty Development Program.











The program was started on 21st December, 2021 with inaugural session followed by technical sessions. Prof. Vijay Vaidya, Executive Secretary, ISTE, New Delhi; Col. B. Venkat, Director, Faculty Development, AICTE, New Delhi were chief guest for the inaugural session. FDP remarks were given by Dr. Sanjay Patel, Co-ordinator of FDP & Head, Automobile Engg, with opening remarks by Dr. Vishal Singh, Principal, ADIT. Dr. (Prof.) Prafulkumar Udani, DG, CVM University has given his views regarding conduction of FDP. Blessings and Presidential remarks were given by Er. Shri Bhikhubhai Patel, President, CVM University. Dr. R.D.Patel, Executive Council Member of ISTE has enlighten the participants with his vision in valedictory session of FDP.

All the online sessions were monitored and handled by Dr. Sanjay Patel, Program co-ordinator & Head of the department, Automobile Engineering and Prof. Yagnesh Gambhava, Co-Coordinator of the FDP.

Dr. Sanjay Patel, Program co-ordinator & Head of the department, Automobile Engineering, organising committee of the event, and all the participants are thankful to AICTE- ISTE for sponsoring the FDP.

Schedule & Details of Eminent Expert Speakers

Sr No	Date & Time	Photograph	Name of Expert	Title
1	21/12/2021 10:00AM to 11:30AM		Prof. Vijay Vaidya, Executive Secretary, ISTE, New Delhi.	Inauguration
			Col. B. Venkat, Director, Faculty Development Cell, AICTE. New Delhi.	Inauguration
2	21/12/2021 11:30AM to 1:00 PM		Mr. Piyush Ghongade Head, Vehicle Dynamics – CEAT Limited (R & D), Halol Gujarat	Effect of Tyres on Vehicle Handling & Future Testing Technologies
3	21/12/2021 2:30PM to 4:00PM		Mr. Darpan Shah Manager, VE Commercial Vehicles Ltd, Indore	Lean supply chain management
4	22/12/2021 10:00AM to 11:30AM		Mr. Sanjay Nibandhe Senior Deputy Director, ARAI, Pune	Automotive Safety -Active and Passive Controls
5	22/12/2021 11:30AM to 1:00 PM		Mr. Shaan Varma Director, Varmech Mobility Pvt Ltd (Carmate), Indore	Advancements in Automobile Engineering
6	22/12/2021 2:30PM to 4:00PM		Dr. Milind Yadav Professor, Finolex Academy of Management and Technology, Ratnagiri, Maharashtra.	Futuristic Automotive Technologies
7	23/12/2021 10:00AM to 11:30AM		Dr. G.D. Bassan Professor & Head, Mechanical Engineering Department, DDU, Gujarat	Motor Insurance and its Application of Surveyor in Motor Claims
8	23/12/2021 11:30AM to 1:00 PM		Dr. Sanjay Patel Head, Automobile Engineering, ADIT, Gujarat	Future Scopes and Challenges in EV

9	23/12/2021 2:30PM to 4:00PM		Dr. Gauvrav Dhuria Associate Professor, Mechanical Engg, DAV Institute of Engg & Technology, Jalandhar	National Education Policy- 2020
10	24/12/2021 10:00AM to 11:30AM		Dr. S S Thipse Senior Deputy Director, ARAI, Pune	Overview of Alternative Fuel Technologies
11	24/12/2021 11:30AM to 1:00 PM		Mr. Rakesh Sharma Expert Engineer, Hero Motocorp Ltd, Jaipur, Rajasthan	Automotive Regulatory and Government Affairs
12	24/12/2021 2:30PM to 4:00PM		Mr. Samarjitsinh Waghela Lead, EV Designer, Yulu Bikes Pvt Ltd, Bangalore	Future of Automobile Design
13	27/12/2021 10:00AM to 11:30AM		Mr. Jimit Mehta Sr. Quality Engineer, Tesla Motors, USA	Challenges with Mass Production of EV Battery Pack
14	27/12/2021 11:30AM to 1:00 PM		Mr. Amit Khatri Proprietor, Misri Road Safety Trainers & Con. Ahmedabad	Road Safety in Vehicle Transportation
15	27/12/2021 2:30PM to 4:00PM		Kashmira (Krishna) Kotak Faculty, Art of Living Ahmedabad	Stress & Mind Management
16	28/12/2021 10:00AM to 11:30AM		Mr. Pradeep Chandrasekaran Associate Director, OLA Electric Technologies Pvt. Ltd. Bangalore.	Fuel Cells for Mobility
17	28/12/2021 11:30AM to 1:00 PM		Mr. Hardik Lakhani Senior Manager, VE Commercial Vehicles Ltd, Indore	Emission Norms and its Impact on Engine Development
18	28/12/2021 2:30PM to 4:00PM		Dr. R D Patel Executive Council Member, ISTE, New Delhi.	Valedictory

List of Participants Registered for FDP

Sr.	Name	Institute	State
1	Kartikkumar D. Chaudhari	Government Engineering College Rajkot	Gujarat
2	Krunal Chandubhai Gohil	C U Shah Govt. Polytechnic	Gujarat
3	Harsh Rajnikant Patel	L D College Of Engineering	Gujarat
4	Dr. Ayanesh Y. Joshi	Adit	Gujarat
5	Jani Dilip Batukray	Govt Engineering College, Dahod	Gujarat
6	Simit Prajapati	Adit	Gujarat
7	Samarth J. Shelat	A.D.Patel Institute Of Technology	Gujarat
8	Kuldip Patel	Adit	Gujrat
9	Pradnya Naresh Chaudhari	Sinhgad Academy Of Engineering, Pune	Maharashtra
10	Ajith Kumar D	Kongu Polytechnic College	Tamilnadu
11	Rahevar Manish Mulsinh	Parul Institute Of Technology, Parul University	Gujarat
12	Jugal Munjalbhai Sanghadia	Parul Institute Of Technology, Parul University	Gujarat
13	Mrs. Shilpa Gadakh	Sinhgad Academy Of Engineering, Pune	Maharashtra
14	Seema Sachin Jadhav	Sinhgad Institute Of Tech & Sci., Pune	Maharashtra
15	Manisha Makwana	Adit	Gujarat
16	Vivek Pandey	Mody University Of Science And Technology	Rajasthan
17	Prof. Ms. Megha Madan Shete	PES's Modern College Of Engineering	Maharashtra
18	Zankhan Sonara	Charusat University Changa	Gujarat
19	Sujal Dadhaniya	Cspit	Gujrat
20	Maharshi Hareshkumar Thakkar	A.D.Patel Institute Of Technology	Gujarat
21	Bhaumikkumar J Sheth	A D Patel Institute Of Technology	Gujarat
22	Dr. Sushovan Chatterjee	Cooch Behar Government Engineering College	West Bengal
23	Amit Rakshit	Kanad Institute Of Engg & Management	West Bengal
24	Prof R B Singh	School Of Life Sciences	U.P.
25	Gajanan Shankarrao Patange	Charotar University Of Science & Technology	Gujarat
26	Harsh Bharatkumar Joshi	A D Patel Institute Of Technology	Gujarat
27	Sanjiv Yadunathsinh Rajput	A. D. Patel Institute Of Technology	Gujarat
28	Sankalp Bhatia	Adit	Gujarat
29	Bala Dutt	Adit	Gujarat
30	Mehul Bipin Patel	A. D. Patel Institute Of Technology	Gujarat
31	Mr. Sagar M. Bechara	Atmiya University	Gujarat
32	Satayu Travadi	Cspit, Charusat - Changa	Gujarat
33	Vikas Hasmukhbhai Panchal	Charusat	Gujarat
34	Nipun Dilipkumar Gosai	Chandubhai S Patel Institute Of Technology	Gujarat
35	Gaurang Arvindbhai Patel	Cspit, Charusat	Gujarat
36	Punit Patel	Cspit, Charusat	Gujarat
37	Ruchir Desai	Adit, New V.V.Nagar	Gujarat
38	Vishal Dhimmarr	Snpitrc	Gujarat
39	Kartik D Pipalia	Marwadi University	Gujrat
40	Dr Pinank Patel	Marwadi University	Gujarat
41	Kaneria Anchitkumar Jamnadas	Marwadi University	Gujarat
42	Kadiya Bhavikkumar H.	L. D. College Of Engineering, Ahmedabad	Gujarat
43	Nikunj R Mashru	Marwadi University	Gujarat
44	Raiyani Jatin Dineshbhai	Marwadi University	Gujarat
45	Nirav Ashokkumar Vora	Dharmsinh Desai University	Gujarat
46	Raval Tejas Vimalray	Indus University	Gujarat

47	Dr. Vipul M. Patel	Dr. Subhash Technical Campus Junagadh	Gujarat
48	Vinay Khatod	Government Engineering College	D&N, Diu
49	Satyavrat Patel	K.J. Institute Of Engineering And Technology	Gujarat
50	Manishkumar H. Patel	Sal Institute Of Tech & Engineering Research	Gujarat
51	Sanket Dipakbhai Patel	Sal Institute Of Tech & Engineering Research	Gujarat
52	Mitesh Natvarbhai Prajapati	Dharmsinh Desai University	Gujarat
53	Sangramsinh Ghorpade	Sinhgad Academy Of Engineering, Pune	Maharashtra
54	Saurabh Chandra	Pratham Infotech Foundation	U.P.
55	Darakhshan Hayat	Allehhouse Institute Of Technology	U.P.
56	Dr.N.Hemalatha	Saveetha School Of Engineering	Tamilnadu
57	Dr Hari Kumar Naidu	GH Rasoni College Of Engineering	Maharashtra
58	Sujit Vishwanath Kumbhar	Sharad Institute Of Technology.	Maharashtra
59	Sabarish Rajagopalan	Bharath Inst Of Higher Education & Research	Tamil Nadu
60	E.Sivaprakash	Kongunadu College Of Engineering & Tech	Tamilnadu
61	Ranaware Abhijit Ashokrao	Savitribai Phule Pune University, Pune	Maharashtra
62	Yogesh V	Vel Tech, High Tech Engineering College	Tamil Nadu
63	Tejas Prajapati	Adit	Gujarat
64	Pratapsinh S Chougule	Sharad Institute Of Tech, College Of Engg	Maharashtra
65	K. Sri Rama Murthy	Sri Vasavi Engineering College	A.P.
66	Priyanka Sharma	Indus University	Gujarat
67	Dr.Arun Vitthalrao Bhosale	Sinhgad Academy Of Engineering, Pune	Maharashtra
68	Yashwant Umrao Chapke	Sinhgad Academy Of Engineering	Maharashtra
69	Imran M Molvi	Parul University	Gujarat
70	Sukhadeo Santarm Vasekar	Sinhgad Academy Of Engineering Pune	Maharashtra
71	Rajesh J	Mohamed Sathak A.J College Of Engineerig	Tamil Nadu
72	Abdul Razak Kaladgi	P.A College Of Engg, Mangalore	Karnataka
73	Ravindra M Gupta	Parul Institute Of Technology	Gujarat
74	Rachel Patil	Sinhgad Academy Of Engineering	Maharashtra
75	Vaibhavkumar C. Bhatt	Parul Institute Of Technology	Gujarat
76	Bhavinkumar P. Mahant	Bvpit Diploma Studies Umrakh	Gujarat
77	Divyesh Kishorbhai Pancholi	BVPIT, Bardoli	Gujarat
78	Mrs.Anita Manoj Patki	Sinhgad College Of Engineering, Pune	Maharashtra
79	Dr. Madhusudhan M	Presidency University	Karnataka
80	Nayan Tejabhai Revar	B.V.P.I.T (D.S), Umrakh	Gujarat
81	Vagh Mahesh Natvarbhai	BVPIT, Bardoli	Gujarat
82	Neelam S.Gohel	Sinhgad College Of Engineering	Maharashtra
83	Samkit Jayeshbhai Shah	Itm Universe	Gujarat
84	Joshi Vatsal Urvishkumar	B.V.P.I.T.(D.S.), Umrakh	Gujarat
85	Pradipkumar S. Chaudhari	Guni-Uvpce	Gujarat
86	Vahora Fazalbai Gulamnabi	B.V.P.I.T.(D.S.)-Umrakh Bardoli	Gujarat
87	Haresh Amrutlal Patel	Ganpat University U.V.P.C.E	Gujarat
88	Timir Gandhi	Sir Bhavsinhjee Polytechnic Institute	Gujarat
89	Viranchi Hitendra Shastri	Ganpat University - U V Patel College Of Engg	Gujarat
90	Thakkar Sujalkumar	Hasmukh Goswami College Of Engineering	Gujarat
91	Akash Manojbhai Siddhapura	U. V. Patel College Of Engineering	Gujarat
92	Dr. Smita Prakash Dhopte	Government Polytechnic Nagpur	Mh
93	Omkamal Vashi	Parul Institute Of Technology	Gujarat
94	Mitul R Malli	A.D.Patel Institute Of Technology	Gujarat
95	Rutuja Rajendra Deshmukh	Sinhgad College Of Engineering Vadgaon Pune	Maharashtra
96	Sunil Kashinath Amrutkar	Amrutvahini College Of Engineering	Maharashtra

97	Harmish Bhatt	Cspit	Gujarat
98	Dr Ronakkumar Shah	Cbm University	Gujarat
99	Kalpesh N Shah	Cvm University	Gujarat
100	Krunal J Shah	A D Patel Institute Of Technology	Gujarat

In spite of 100 registered participants, as per the AICTE-ISTE guidelines (SOP) regarding attendance & quiz, 83 participants have successfully completed the Faculty Development Program.

Photographs of FDP: “Automobile Engineering: Past, Present & Future”

Banner:

**A Faculty Development Program (Online) On
“Automobile Engineering : Past, Present & Future”
21 - 28 December, 2021**

**Sponsored By:
AICTE - ISTE**

Event Coordinators: Dr. S M Patel & Prof. Y J Gambhava

**Organized By :
Automobile Engineering Department
A D Patel Institute of Technology, New V V Nagar, Gujarat
(A Constituent College of CVM University)
www.adit.ac.in , www.cvmu.edu.in**

Date: 21/12/2021: Inauguration & Technical Sessions



Date: 22/12/2021: Technical Sessions

Sanjay Nibandhe is presenting

Active and Passive safety An Overview

By Sanjay S. Nibandhe
(Plant Head-HTC and HOD-PSL)
(ARAI-PUNE)

People: 17

In call: Head Automobile Engg. (You), Bala Dutt, bhavik kadiya, Dr. Vipul M Patel, Dr. ARUN BHOSALE, Dr. Ayanesh Joshi

10:11 AM | eqp-wwwh-gwq

Shaan Varma is presenting

Automotive Technologies

- Auto-Mobile – What, Why, When?
- Automotive Industry, Brands & Legacy
- Vehicle Product Lifecycle
- Vehicle Categorization
- Automobile Architecture, Specification & Terms
- Vehicle Systems
- Fuels
- Automotive Safety & Essentials
- Advanced Technologies
- Electric and Hybrid Vehicle
- New Vehicle launches
- The Future of Automobiles

People: 0

In call: Head Automobile Engg. (You), Anchit Kaneria, Bala Dutt, bhavin mahant, D.B. Jani

10:11 AM | eqp-wwwh-gwq

Dr. Milind Yadav is presenting

A presentation on Futuristic Automotive Technologies

by
Dr. Milind Yadav
Professor,
Mechanical Engineering Department,
Finolex Academy of Management & Technology
at
AICTE-ISTE Sponsored Faculty Development Program (FDP)
on "Automobile Engineering: Past, Present and Future",
organized by Automobile Engineering Department,
A. D. Patel Institute of Technology, Gujrat

Date: 22/12/2021, Session Time: 2.30 PM to 4.00 PM

People: 20 others

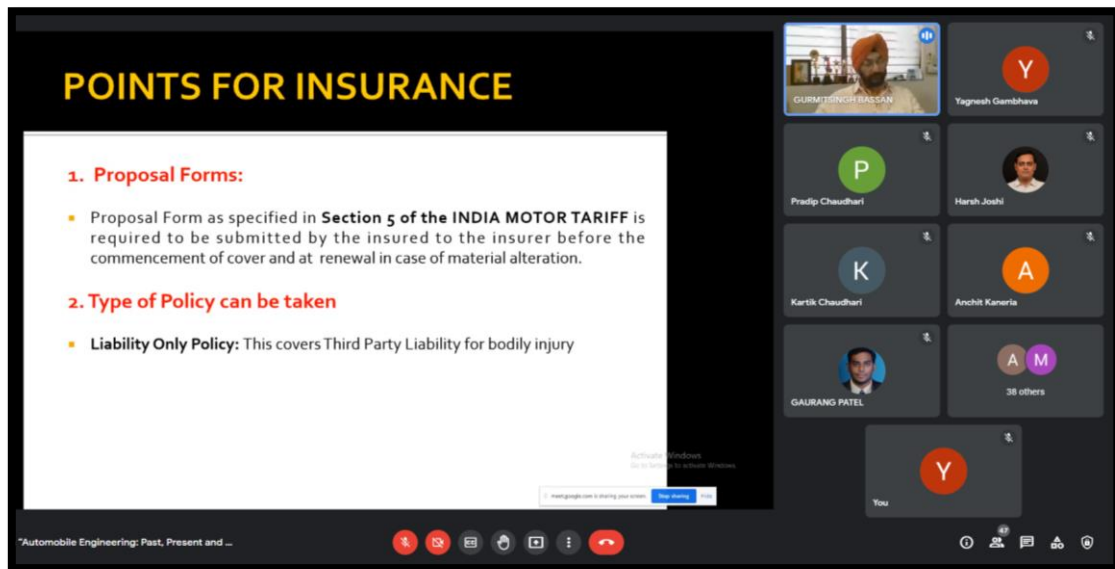
In call: Yagnesh Gambhava, Head Automobile E..., Technique Engne..., Subhrajit Dey, Vikas Panchal, Prof Ms Megha Sh..., Medhousham M A..., nipun gosal, Harsh Joshi, Dr. Milind Yadav, Dr. Sushovan Chatt..., Pradnya Chaudhari, AKASH M SIDOHA..., K. S.R.MURTHY, sangit1, Nimil Patel, 20 others, You

2:40 PM | FDP on "Automobile Engineering: Past, Present and ...

Date: 23/12/2021: Technical Sessions

POINTS FOR INSURANCE

- 1. Proposal Forms:**
 - Proposal Form as specified in **Section 5 of the INDIA MOTOR TARIFF** is required to be submitted by the insured to the insurer before the commencement of cover and at renewal in case of material alteration.
- 2. Type of Policy can be taken**
 - Liability Only Policy:** This covers Third Party Liability for bodily injury



Scopes & Challenges in Electric Vehicle Technology

Dr. Sanjay M. Patel
Head,
Automobile Engineering,
A.D.Patel Institute of Technology
(A Constituent College of CVM University)
New V.V.Nagar

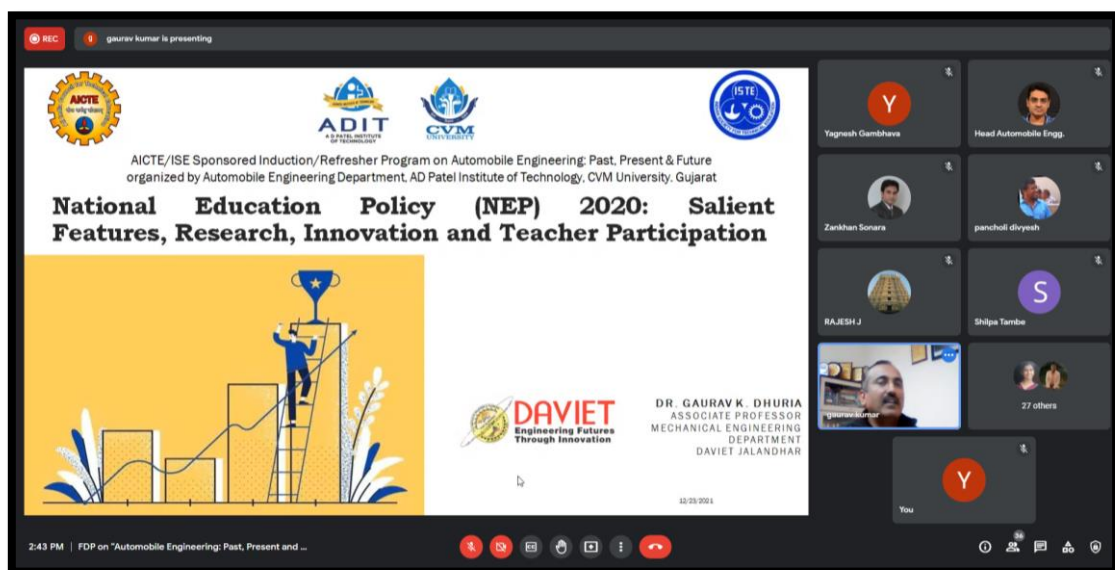
23rd December, 2021



REC | gaurav kumar is presenting

National Education Policy (NEP) 2020: Salient Features, Research, Innovation and Teacher Participation

AICTE/ISE Sponsored Induction/Refresher Program on Automobile Engineering: Past, Present & Future organized by Automobile Engineering Department, AD Patel Institute of Technology, CVM University, Gujarat

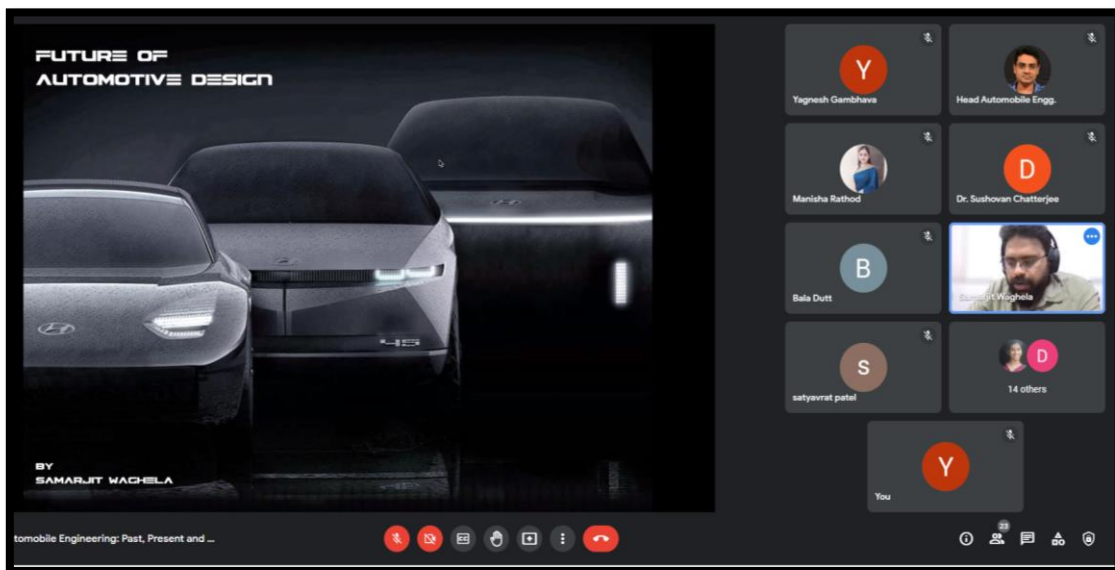
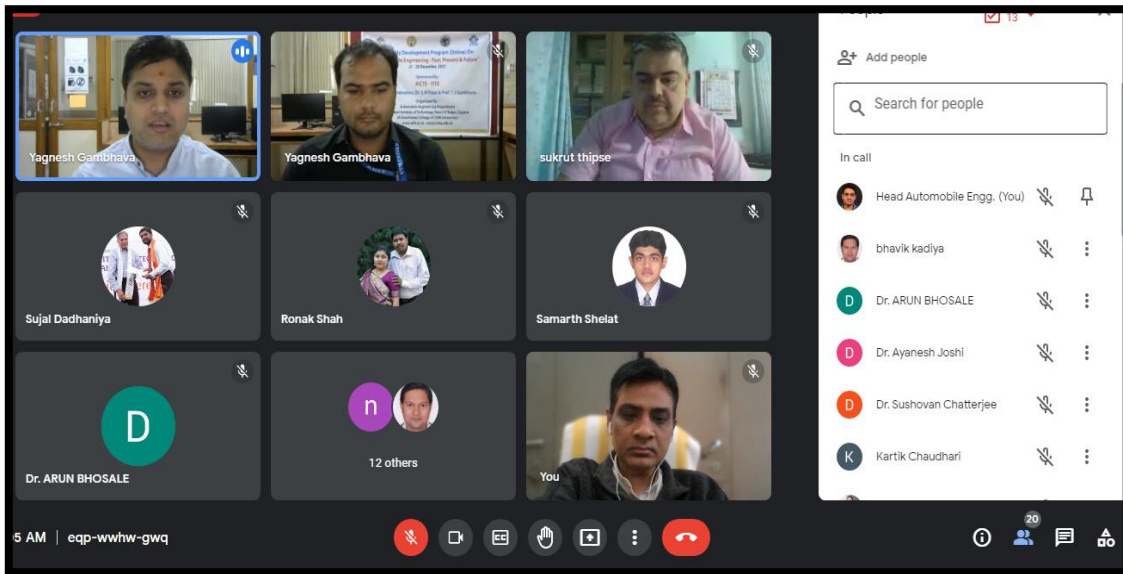


DR. GAURAV K. DHURIA
ASSOCIATE PROFESSOR
MECHANICAL ENGINEERING
DEPARTMENT
DAVIET JALANDHAR

40/23/2021

2:43 PM | FDP on "Automobile Engineering: Past, Present and ..."

Date: 24/12/2021: Technical Sessions



Date: 27/12/2021: Technical Sessions.

Challenges with Mass production of EV Battery pack

Presentation made by Jimit Mehta
Date: 27th Dec 2021

10:03 AM | FDP on "Automobile Engineering: Past, Present and ...

Participants: Jimit Mehta, Harmish Bhatt, Yagnesh Gambhava, Head Automobile Engg., Dr. ARUN BHOSALE, Priyanka Sharma, Technique Engineering, 15 others, You.

Amit Khatri is presenting

सफेद खंडीत रेखा— लेन बदलने की अनुमती है

03 PM | FDP on "Automobile Engineering: Past, Present and ...

Participants: Sunil Amrutkar, Harmish Bhatt, Dr Vipul M Patel, Manish Patel, Yagnesh Gambhava, Head Automobile Engg., 30 others, You.

REC

Kartik Chaudhari, krishna kotak, Yagnesh Gambhava, Manisha Rathod, Pradip Chaudhari

Yagnesh Gambhava, Sukhadeo Vasekar, 12 others, You

2:33 PM | eqp-wwhw-gwq

Date: 28/12/2021: Technical Sessions, Valedictory & Feedback Sessions.

Indian Society for Technical Education
Dr.R.D.Patel
 National Executive Council Member
 ISTE
 New Delhi

Engineering: Past, Present and ...

Transportation Scenario -Worldwide

Mode	Percentage
Cars and motorbikes	45%
Passenger	45%
Heavy truck	12%
Light truck	11%
Marine	12%
Air	12%
Other	2%
Bus	4%
Road	30%
Non-road	20%
Freight	37%

-Nearly half of energy demand for global transport is from light duty vehicles and the number of passenger cars.
 -Worldwide is expected to rise from 1 to 2.5 billion by 2050.

Automotive Engineering - Present and Future Pradeep Chandrasekaran

tomobile Engineering: Past, Present and ...

Participants in call:

- Anita Patki
- Dr. Rakesh D. Patel
- Yagnesh Gambhava
- Pradip Chaudhari
- pancholi divyesh
- Dr Vipul M Patel
- Vivek Pandey
- 27 others
- You

Press Article

The article related to AICTE-ISTE sponsored FDP was published in Gujarati News Paper in Gujarati language. The sample for the same is mentioned below.

વિધાનગર: એડીઆઈટીમાં ફેકલ્ટી ડેવલોપમેન્ટ પ્રોગ્રામ

આણંદ, તા. ૨૨

સીવીએમયુની ન્યુ વિધાનગર સ્થિત એડીઆઈટી એન્જિનિયરીંગ કોલેજના ઓટોમોબાઈલ એન્જિનિયરીંગ ડિપાર્ટમેન્ટ દ્વારા 'ઓટોમોબાઈલ એન્જિનિયરીંગ પાસ્ટ, પ્રેઝન્ટ એન્ડ ફ્યુચર વિષય પર આઠ દિવસિય ૨૮ ડિસેમ્બર સુધી ફેકલ્ટી ડેવલોપમેન્ટ પ્રોગ્રામનું આયોજન કરવામાં આવ્યું છે. જેના વર્ચ્યુઅલ ઉદ્ઘાટન સમારંભમાં કર્નલ વેંકટ (ડાયરેક્ટર, ફેકલ્ટી ડેવલોપમેન્ટ, એઆઈસીટીઈ, ન્યુ દિલ્હી) અને પ્રો. વિજય વૈદ્ય (એકિઝક્યુટિવ સેક્રેટરી, આઈએસટીઈ, ન્યુ દિલ્હી)એ તેમના મંતવ્યો રજૂ કર્યા હતા.

હેડ ઓફ ધ ડિપાર્ટમેન્ટ અને પ્રોગ્રામ કો-ઓર્ડિનેટર ડૉ. સંજય પટેલ તથા કો-ઓર્ડિનેટર પ્રો. યજ્ઞેશ ગાંભવાના જણાવ્યા મુજબ

એઆઈસીટીઈ-આઈએસટીઈ પ્રાયોજિત આ એફડીપીમાં ભારતભરમાંથી લગભગ ૧૦૦ જેટલા ફેકલ્ટી મેમ્બર્સ રજિસ્ટર થયા છે. ARAI, ટેસ્લા મોટર્સ, હીરો મોટર્સ, CEAT ટાયર્સ, વોલ્વો-આઈસર, OLA બાઈક્સ, Yulu બાઈક્સ જેવી, ઓટોમોબાઈલ ઈન્ડસ્ટ્રીઝના એક્સપર્ટ તેમના વ્યાખ્યાન આપશે. છ દિવસના આ પ્રોગ્રામમાં ૧૮ જેટલા ઓનલાઈન સેશનનું આયોજન થશે. ઉદ્ઘાટન સમારંભનું સંચાલન પ્રો. દષ્ટિ ભટ્ટ દ્વારા કરવામાં આવ્યું હતું. એડીઆઈટી કોલેજના પ્રિ. ડૉ. વિશાલ સિંઘ, CVMU ડાયરેક્ટર જનરલ પ્રો. (ડૉ.) પ્રફુલકુમાર ઉદાણી, સીવીએમના અધ્યક્ષ ભીખુભાઈ પટેલ તથા તમામ હોદ્દેદારોએ એડીઆઈટી કોલેજને અભિનંદન સાથે શુભેચ્છા પાઠવી હતી.

Sardar Gurjari; 23.12.21; Pg.7

www.sardargurjari.com

***** End of Report *****