

**A Report on  
Faculty Development Program (FDP) on  
"Alternate Fuels"**

**Date: 08-12 February, 2021**

**Sponsored by: AICTE-ATAL Academy**



***Organised By:***

**Automobile Engineering Department  
&  
Mechanical Engineering Department  
(NBA Accredited)**

**Co-ordinator:**

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

**Co Co-ordinators:**

**Prof. Yagnesh Gambhava, Prof. Bala dutt**



**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 “**Alternate Fuels**” was organised during **8<sup>th</sup> February to 12<sup>th</sup> February 2021** (5 days) by Automobile Engineering Department & Mechanical Engineering Department (NBA Accredited) of A.D.Patel Institute of Technology (A Constituent College of CVM University), sponsored by AICTE- ATAL Academy.

The FDP was mainly for the faculty members of Automobile, Mechanical and other allied branches of degree & diploma engineering colleges and for industry delegates. 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 Alternate Fuels. Apart from these, virtual hands on practice in automobile laboratories was conducted on live virtual mode.

Total 137 participants have been registered with their consent for this FDP through ATAL login portal. All the sessions were conducted through online mode with Google Meet platform. A quiz was conducted on the last day of FDP, i.e. on 12<sup>th</sup> February, 2021. As per the ATAL-AICTE guidelines those who achieved 80% attendance and 60% marks in test quiz, are eligible to fill feedback on the ATAL login portal and eligible to get certificate of participation. In spite of 137 registered participants, as per the AICTE-ATAL guidelines regarding attendance & quiz, 114 participants have successfully completed the Faculty Development Program.

The program was started on 8<sup>th</sup> February 2021 with inaugural session followed by technical sessions. Welcome address was given by Dr. Sanjay Patel, Co-ordinator of FDP & Head, Automobile Engg, and Dr. Y.D.Patel, Head, Mechanical Engg, opening remarks by Dr. Vishal Singh, Principal, ADIT with technical session delivered by Dr. Sudhir Gupte, Proprietor, Prarambh Engineering Consultancy, Vododara on Alternate Fuels - Need and Scope.




Dr. Nimit Patel along with other faculty members of Automobile Engineering Department, ADIT has virtually demonstrated equipments/setup related to Alternate fuels and other latest laboratory equipments available at Automobile & Mechanical engineering laboratories, ADIT. The virtual laboratory session was useful for the participants to get knowledge about latest automotive equipments.

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

Dr. Sanjay Patel, Program co-ordinator & Head of the department, Automobile Engineering, Dr. Y.D.Patel, Head, Mechanical Engg., Dr. Vishal Singh, Principal, ADIT, organising committee of the event, and all the participants are thankful to AICTE- ATAL Academy for sponsoring the FDP.

### Schedule & Details of Eminent Expert Speakers

Sr No	Date & Time	Photographs	Name of Expert	Title
1	08.02.2021, 10:00AM to 11:30AM		Dr. Sudhir Gupte Proprietor, Prarambh Engg Consultancy, Vadodara	Inaugural & Technical Session Alternate Fuels - Need and Scope.
2	08.02.2021, 11:30AM to 1:00 PM		Dr. S A Channiwala Professor, Mech. Engg. Dept., SVNIT, Surat	Alternative Fuels and Related Engine Technologies.
3	08.02.2021, 3:00PM to 4:30PM		Mr. Pradeep Chandrasekaran General Manager ,R&D , FORCE MOTORS Limited, Pune	Hydrogen Mobility - Challenges and Opportunities.
4	09.02.2021, 10:00AM to 11:30AM		Dr. B M Ramani Professor & Principal, SLTIET, Rajkot	Potential and Power of Solar Energy Technology in the field of Automotive.
5	09.02.2021, 11:30AM to 1:00 PM		Dr. M Suresh Assistant Professor, Mech. Dept., Karunya Inst of Tech & Science, Coimbatore	Production Process of Biodiesel from Mexican Poppy in VCR CI Engine.
6	09.02.2021, 3:00PM to 4:30PM		Dr. Absar Lakdawala Associate Professor, Nirma University, Ahmedabad	Tribo-Corrosion Behavior of Bio- Diesel.
7	10.02.2021, 10:00AM to 11:30AM		Dr. S S Thipse Head & Sr. Dy. Director Power Train Engg. Lab. ARAI, Pune	Alternative Fuel Technologies for India.
8	10.02.2021, 11:30AM to 1:00 PM		Dr. Milind Yadav Associate Professor, Finolex Aca. of Manag & Tech, Pune	Variable Compression Ratio Engines and Optimization Using RSM.
9	10.02.2021, 3:00PM to 4:30PM		Dr. Sudhir Gupte Proprietor, Prarambh Engg Consultancy, Vadodara	Hybrid Electric Vehicles and its Challenges.
10	11.02.2021, 10:00AM to 11:30AM		Dr. P D Patel Assistant Professor, L D Engg College, Ahmedabad	Tribological Assessment of CI Engine Fueled with Biofuel.
11	11.02.2021, 11:30AM to 1:00 PM		Mr. Subhash Joshi Principal Consultant, Towers & Young HR Advisors LLP, Vadodara	Lithium Batteries: Key Role in Alternate Fuels of Future Mobility.

12	11.02.2021, 3:00PM to 4:30PM		Dr. Nimit M Patel Automobile Engg Dept. ADIT	Automobile Engineering Dept Lab Demo/PUC.
13	12.02.2021, 10:00AM to 11:30AM		Mr. Jimit Mehta Quality Engineer, Tesla Inc, USA	Challenges with Mass production of EV Battery pack.
14	12.02.2021, 11:30AM to 1:00 PM		Prof. Flora Kamdar Trainer & Educator, Romania	Well being and Resilience to manage stress.
15	12.02.2021, 3:00PM to 4:30PM	---	---	Feedback, Quiz & Valedictory Session.

### List of Participants Registered for FDP

Sr No	Name	Phone	Institute
1	Mr. Samarth J. Shelat	9725735830	A.D.Patel Institute Of Technology
2	Mr. kuldeep Patel	8128083309	A D Patel Institute of Technology
3	Mr. Chandan Chowdhury	8240258189	Elite Institute of Engg & Management
4	Mr. THIAGARAJAN C	9444714875	AARUPADAI VEEDU INSTITUTE OF TECH.
5	Mr. SENTHIL J	9940242566	AARUPADAI VEEDU INSTITUTE OF TECH.
6	Mr. AJITH KUMAR D	9384540171	Kongu Polytechnic College , Perundurai
7	Mr. prashant trivedi	9925141259	ENGINEERING COLLEGE TUWA
8	Mr. DHARMAPRABHAKARAN.T	9047951189	SYED AMMAL ENGINNERING COLLEGE
9	Mr. Sujal Dadhaniya	9662255116	C.S.P.I.T
10	Dr. Nidhee Chaudhary	9411274624	Amity University Uttar Pradesh
11	Mr. Krupal Shah	9712745067	Indus Institute of Tech &Engg.
12	Mr. SAGARKUMAR KANJIYA	9408040240	Darshan Institute of Engineering and Tech.
13	Mr. GOWTHAM RAJAN A	9003162252	Kalasalingam Academy of Research & Edu.
14	Mrs. Udaya Sri Kakarla	9490116270	KG Reddy College of engg & Tech
15	Mr. Simit Prajapati	9898408940	A D Patel Institute of Technology
16	Mrs. MAKWANA RAJESHREE P	9426419939	B.PHARMACY COLLEGE RAMPURA
17	Mr. ASHISHBHAI M AMBALIYA	9714377756	Dr.S. S. GHANDHY COLLEGE OF E&T.
18	Dr. A ARUL PETER	9442392315	VELS INST. OF SC. TECH. & ADV. STUDIES
19	Mr. Harsh Rajnikant Patel	9924269278	L.D College of Engineering
20	Mr. J. STARLIN DEVA PRINCE	9965399367	STELLA MARY'S COLLEGE OF ENGINEERING
21	Dr. PARAMAGEETHAM	9346840042	Sri Venkateswara University
22	Mr. Shukla Hardikkumar A.	9662509875	L. D. COLLEGE OF ENGINEERING
23	Dr. LIBIN P OOMMEN	8281709979	Mangalam College of Engineering
24	Mr. Madhusduan barot	9662547299	Indus University
25	Mr. DINESH RAMCHANDANI	9755054978	SAGAR INST. OF RESEARCH & TECH, BHOPAL

26	Mr. Prakash Katdare	7769868112	SIRT Bhopal
27	Mr. Pradeep Raju	7397426471	MIT Campus, Anna University
28	Dr. Elumalai.P	9894664504	Nehru Institute of Engg &Tech,Coimbatore
29	Mr. Prabhu	9715366097	JCT COLLEGE OF ENGINEERING AND TECH.
30	Mrs. S.R.KALAIVANI	7708801716	Amrita college of engg & tech, Nagercoil
31	Dr. Vivek Pandey	8218906733	Mody University of Science & Technology
32	Dr. Sushovan Chatterjee	9707545561	Cooch Behar Government Engg. College
33	Mr. Premdasu Nalluri	9652633620	Gudlalleru Engineering College
34	Mr. Gothi Narendra Hansrajbhai	9427815598	IJET, dharamaj
35	Dr. Amit Kumar Rathoure	9616428049	Govt. Polytechnic Lakhimpur Kheri
36	Dr. K Hussain	9390582229	Sharad Institute of Tech. College of Engg.
37	Dr. C S Choudhari	9822446264	AISSMS COE PUNE
38	Mr. Purushothaman	7667660754	Agni college of technology
39	Mr. Ankit Gupta	9899439873	GREATER NOIDA INSTITUTE OF TECH.
40	Dr. Amandeep Singh	9872376156	Chandigarh University, Mohali, Punjab
41	Mr. ASHOKKUMAR A PARMAR	9328522545	BBIT , VALLABH VIDYANAGAR
42	Mr. PATEL PARISHADKUMAR K	9724210146	C.U.SHAH POLYTECHNIC SURENDRANAGAR
43	Mr. BHOJRAJ N KALE	9130016829	DR. BABASAHEB AMBEDKAR COER.
44	Mr. Sachin D Thakre	8208823598	Government Polytechnic Nagpur
45	Dr. Smita prakash dhopte	9970674558	Government Polytechnic, Nagpur.
46	Dr. RUPESH SHELKE	9822577798	G H Raisonni college of Engineering, Nagpur
47	Mr. SACHIN V SHINDE	9552369495	GURU GOBIND SINGH COERC.
48	Mr. SURADA SANYASIRAO	9292556602	NADIMPALLI SATYANARAYANA RAJU IOT.
49	Mr. DEEPAK V LOKARE	9482024433	KLS VDIT
50	Dr. Pranil V Sawalakhe	9049374786	Jain University
51	Dr. Harish S Bhatkulkar	9923975866	S B Jain Institute of Tech& Mgmt Res.
52	Mr. GOHIL KRUNAL C	9537256072	C U SHAH GOVERNMENT POLYTECHNIC
53	Mr. SIVA V	8870495595	Sri Ramakrishna Engineering College
54	Mr. Maddipati Rajesh	8500906881	Sasi Institute of Technology and Engineering
55	Miss Arnisha Roy	7003815818	Haldia Instutute Of Technology
56	Mr. FAIZAN AHMAD	7355373253	SANJAY GANDHI POLYTECHNIC
57	Mr. Hemant Dawande	9893892811	SBITM BETUL Madhyapradesh
58	Mr. Abhishek H A	8951269189	Dayananda Sagar College of Engineering
59	Mr. PIYUSH OJHA	9811815481	KIET Group of Institutions
60	Dr. Jani dilip batukray	9428044640	Government Engineering College, Dahod
61	Dr. kiran Kumar M	9986262333	Sir.MVIT
62	Mr. Vinay Khatod	9624441386	Government Engineering College
63	Mr. ROHAN LAKDAWALA	9998145918	Mahavir Swami College of Polytechnic
64	Mr.CHAUDHARI MADHUSUDAN	9427831778	SHRI K J POLYTECHNIC
65	Mr. RAVI D GONDALIYA	9998878068	ATMIYA INSTITUTE OF TECH.
66	Mr. Vipukumar R Bhatt	9426378462	Government Engineering College Godhra
67	Dr. Pareshkumar D Patel	9898148633	L D College of Engineering

68	Dr. Ronakkumar R shah	9265018435	A D Patel Institute of Technology
69	Mr. Chiragkumar M Amin	7283844472	Government Polytechnic Palanpur
70	Mr. KARTHIKEYAN A	9944620850	EXCEL ENGINEERING COLLEGE
71	Mr. Gourav Abasaheb Chougule	7276339144	D. Y. Patil College of Engineering.
72	Mr. GANGADHAR DAS	8249148703	Balasore School Of Engineering
73	Dr. Chitra	9894678270	Sri Sivasubramaniya Nadar College of Engg.
74	Mrs. Pragna Patel	7990788189	LDRP-ITR
75	Mr. HITESH LAXMIDAS JADAV	9898063288	C U SHAH Government Polytechnic, S'nagar.
76	Mr. PRIYANK R MISTRY	9099003707	SHRI K. J. POLYTECHNIC, BHARUCH
77	Mr. SALIM	9518153170	KIET Group of Institutions
78	Mr. Maner Vasim Bashir	8149002189	YSPM's Yashoda Technical Campus, Satara
79	Mr. Santosh Kumar Rathore	7987420180	Sage University Indore
80	Mrs. Subhadra Rajpoot	9654563465	Amity University
81	Mr. Prasad Annasaheb Bojage	9970065292	Sanjivani College of Engineering
82	Miss Megha Madan Shete	8975561682	PES's Modern college of Engineering
83	Dr. C.GNANAVEL	9884803582	Vels Institute of science, Tech & Adv Studies
84	Mr. YOGENDRA RATHORE	9425149930	Government Polytechnic College Raisen
85	Mr. M Navin Marudhan	9944371710	University College of Engineering.
86	Mrs. AARTI BIST	7465035399	GOVERNMENT POLYTECHNIC PANTNAGAR
87	Mrs. JAYANTI KHATI	9412923716	GOVERNMENT POLYTECHNIC PANTNAGAR
88	Mrs. BHAWANA BHATT	9897885661	GOVERNMENT POLYTECHNIC PANTNAGAR
89	Dr. S. JAICHANDAR	9444984748	VRDS INSTITUTE OF SCIENCE & TECH.
90	Mr. Ramdas Shinde	9325508241	Sanjivani K. B. P. Polytechnic Kopargaon
91	Mr. ARUNKUMAR	9480003777	CMR UNIVERSITY
92	Mr. Prakashkumar Prajapati	9427075898	Government Engineering College, Bharuch
93	Mr. Bhaumikkumar J Sheth	9998267201	A D PATEL INSTITUTE OF TECHNOLOGY
94	Miss Kumarika Sarmah	9429164585	Manipal Academy of Higher Education
95	Dr. Anurag Barthwal	7983989874	Shiv Nadar University
96	Mr. Suryakant D Lad	7391931833	NMIET
97	Dr. Pankaj Shrivastava	7020979678	prestige institute of engg mgmt. & research
98	Mr. Vimalkumar D Sonara	9879911245	L D college of Engineering Ahmedabad
99	Mrs. Shravani Ajinkya Phule	9764032020	Sinhgad College of Engineering
100	Mrs. Deepali M Gaikwad	9011753535	Sinhgad college of Engineering
101	Mrs. Pradnya Naresh Chaudhari	7620314684	Sinhgad College of Engineering, pune
102	Mr. ASHWINIKUMAR RAI	7874728269	PANDIT DEENDYAL PETROLIUM UNIVERSITY
103	Mr. CIJIL B JOHN	9447703545	JYOTHI ENGG COLLEGE, CHERUTHURUTHY
104	Mr. Uday V Chaudhari	9405154562	CMCS COLLEGE,NASHIK
105	Dr. Venkata Ramesh Mamilla	9885183268	Sri Vasavi Engineering College
106	Mr. Chethan SG	8095040747	JNN college of Engineering,Shivamogga,
107	Dr. K Kalyani Radha	9440517729	jntu anantapur
108	Mr. Kavi Grover	7300073298	RAFFLES UNIVERSITY, NEEMRANA
109	Miss Nidhi Singh	8743035432	Visvesvaraya National Institute Of Tech.

110	Mr. YOGESH A SAKPAL	9979681197	A Y DADABHAI TECHNICAL INSTITUTE
111	Mr. PRAJWALKUMAR PATIL	9866872731	NA
112	Mr. Abdul Razak kaladgi	8660018783	P.A College of Engineering, Mangalore
113	Mr. CHAUHAN VISHAL	9904850957	A Y DADABHAI TECHNICAL INSTITUTE
114	Mr. KHALASI MAULIK S	7405452542	A Y DADABHAI TECHNICAL INSTITUTE
115	Mr. MAHRSH G KATARIYA	9033702373	A.Y.DADABAHI TECHNICAL INSTITUTE
116	Dr. JAYANTILAL P HADIYA	9727347833	Birla Vishvakarma Mahavidyalaya
117	Mr. DEVEN I SURTI	8780628703	A.Y.DADABHAI TECHNICAL INSTITUTES
118	Dr. Nimit Patel	9558618236	A.D.PATEL INSTITUTE OF TECHNOLOGY
119	Mr. JITENDRA KUMAR	9931654802	IIET
120	Mr. CHIRAG LALIT BAFNA	9881176066	MODERN COLLEGE OF ENGINEERING
121	Mr. Sam Solomon D P	9488571718	Coimbatore Institute of Technology
122	Dr. Arun J	9787069682	sathyabama institute of science & tech.
123	Mr. ASIM ALI KHAN	7795349136	RV COLLEGE OF ENGINEERING
124	Mr. ARUN RAJA K K	9095884060	Hindusthan College of Engineering & Tech.
125	Mr. P. Yogesh	8973037152	VRDS R&D Institute of Science and Tech.
126	Mr. ASHITH VALLERIYAN	9847167715	COLLEGE OF ENGINEERING TRIVANDRUM
127	Mrs. AMBIKA BHUSANGE	9538820850	Faculty of Engineering and Tech. for women
128	Mr. Chandrasekar M	9943722170	Chettinad College of Engineering & Tech.
129	Mr. PRAKASH	9942320432	Chettinad College of Engineering & Tech.
130	Miss Ayushi Mishra	9850463978	VNIT
131	Mrs. ANITA	8660225860	Sharnbasva university
132	Dr. Amit Gupta	7906510226	Institute Of Basic Science, Agra
133	Mr. Rajendra Kumar Patel	9329112333	Shri Rawatpura Sarkar University, Raipur
134	Mr. UNNI KRISHNAN K G	9810609283	HERO MOTOCORP LTD
135	Mr. Maharshi Thakkar	9558616889	A. D. Patel Institute of Technology
136	Mr. Senthil kumar M	9444169256	NITTTR, Chennai
137	Mr. Niravkumar V Parmar	9510110455	A D Patel Institute of Technology

In spite of 137 registered participants, as per the AICTE-ATAL guidelines regarding attendance & quiz, 114 participants have successfully completed the Faculty Development Program.

## Photographs of FDP: “Alternate Fuels”

Banner:

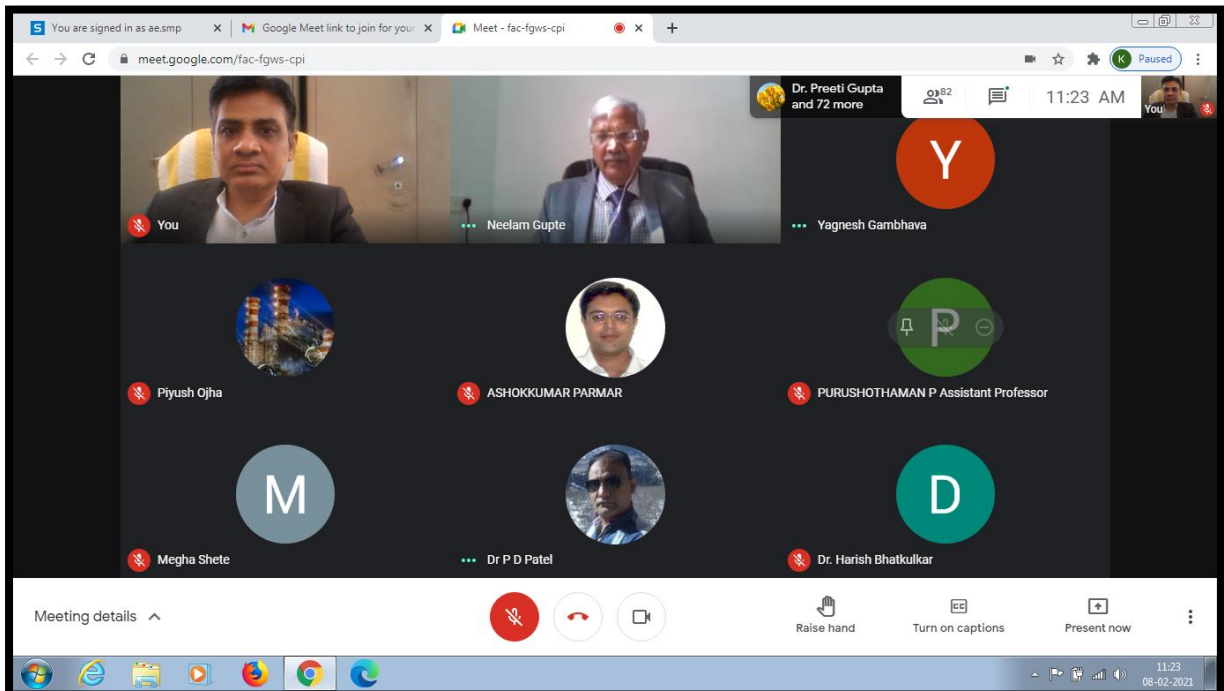


**A Faculty Development Program (Online) On  
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08 - 12 February, 2021

**Sponsored By:**  
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**Organized By :**  
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&  
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A D Patel Institute of Technology, New V V Nagar, Gujarat  
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[www.adit.ac.in](http://www.adit.ac.in) , [www.cvmu.edu.in](http://www.cvmu.edu.in)

Date: 08/02/2021: Inauguration & Technical Sessions

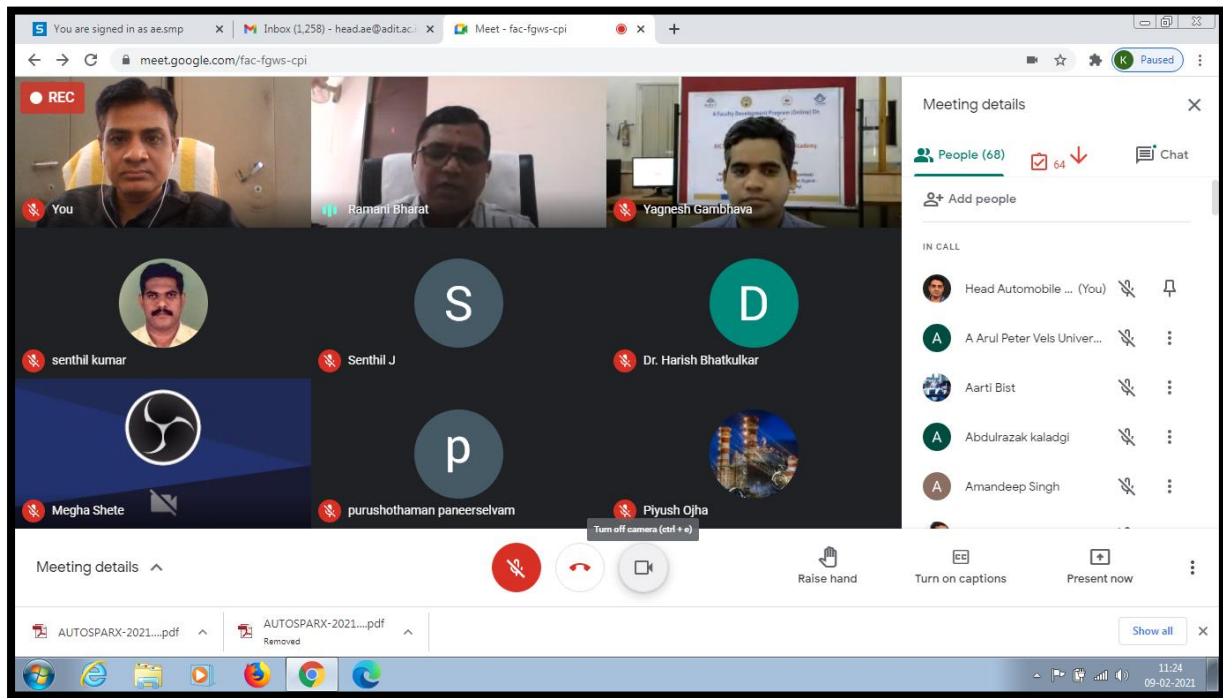


The screenshot shows a Google Meet interface with the following details:

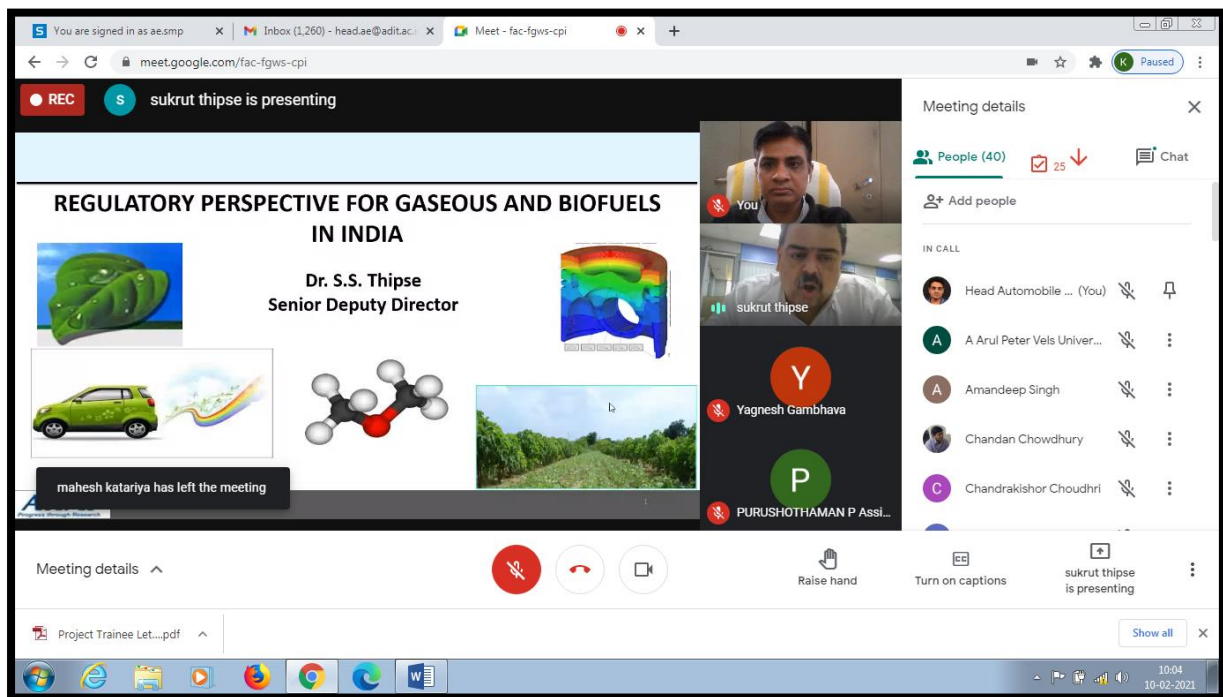
- Browser tabs: "You are signed in as ae.smp", "Google Meet link to join for you", "Meet - fac-fgws-cpi".
- Address bar: [meet.google.com/fac-fgws-cpi](https://meet.google.com/fac-fgws-cpi)
- Meeting title: "Meet - fac-fgws-cpi"
- Participants (top row): "You", "Neelam Gupte", "Dr. Preeti Gupta and 72 more", "Yagadesh Gambhava".
- Participants (middle row): "Piyush Ojha", "ASHOKKUMAR PARMAR", "PURUSHOTHAMAN P Assistant Professor".
- Participants (bottom row): "Megha Shete", "Dr P D Patel", "Dr. Harish Bhatkulkar".
- Meeting controls (bottom): "Meeting details", "Raise hand", "Turn on captions", "Present now".
- System tray (bottom right): "11:23 08-02-2021".



## Date: 09/02/2021: Technical Sessions



## Date: 10/02/2021: Technical Sessions



**Design of experiment**  
Sir Ronald A. Fisher

- Recognition of problem statement
- Choice of factors and levels
- Selection of response variable
- Choice of experiment design
- Performing experiments
- Data analysis using statistical tool
- Conclusions and recommendations

*Handwritten notes:*  
 compression Ratio  
 Fuel blends → Petrol + oxy hyd. gas

Meeting details: Dr. Milind Yadav is presenting

System tray: 10:00, 11-02-2021

**Date: 11/02/2021: Technical Sessions**

Meeting details

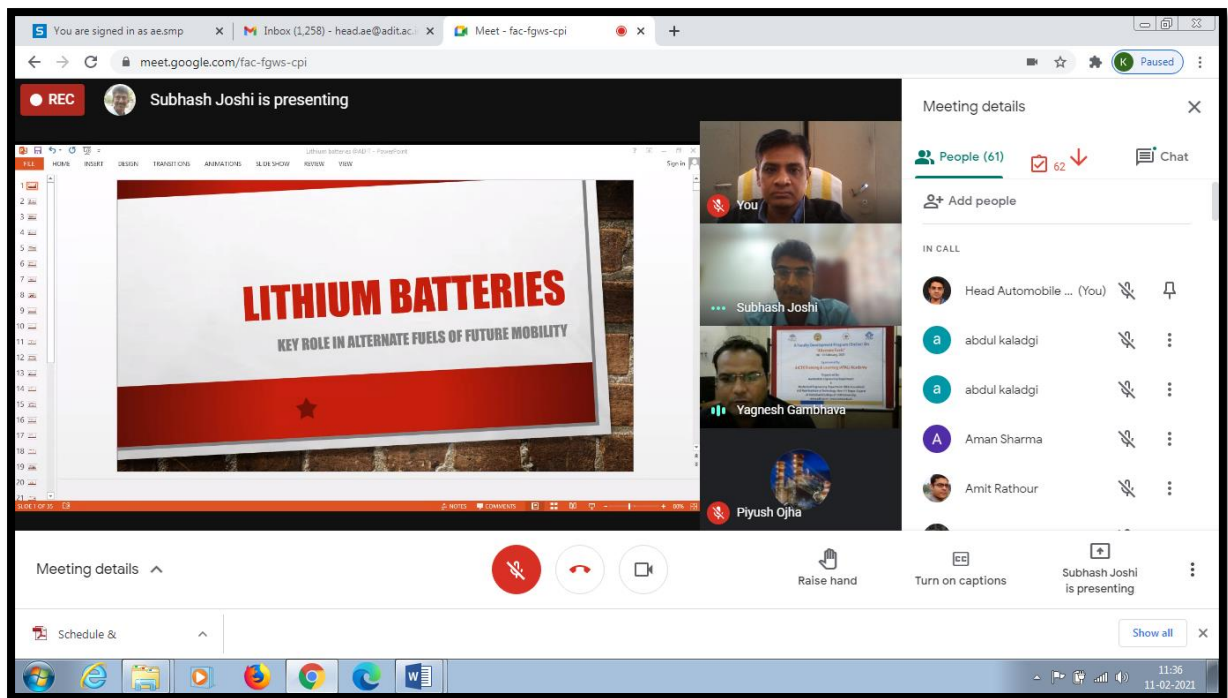
People (23) 17 ↓ Chat

Add people

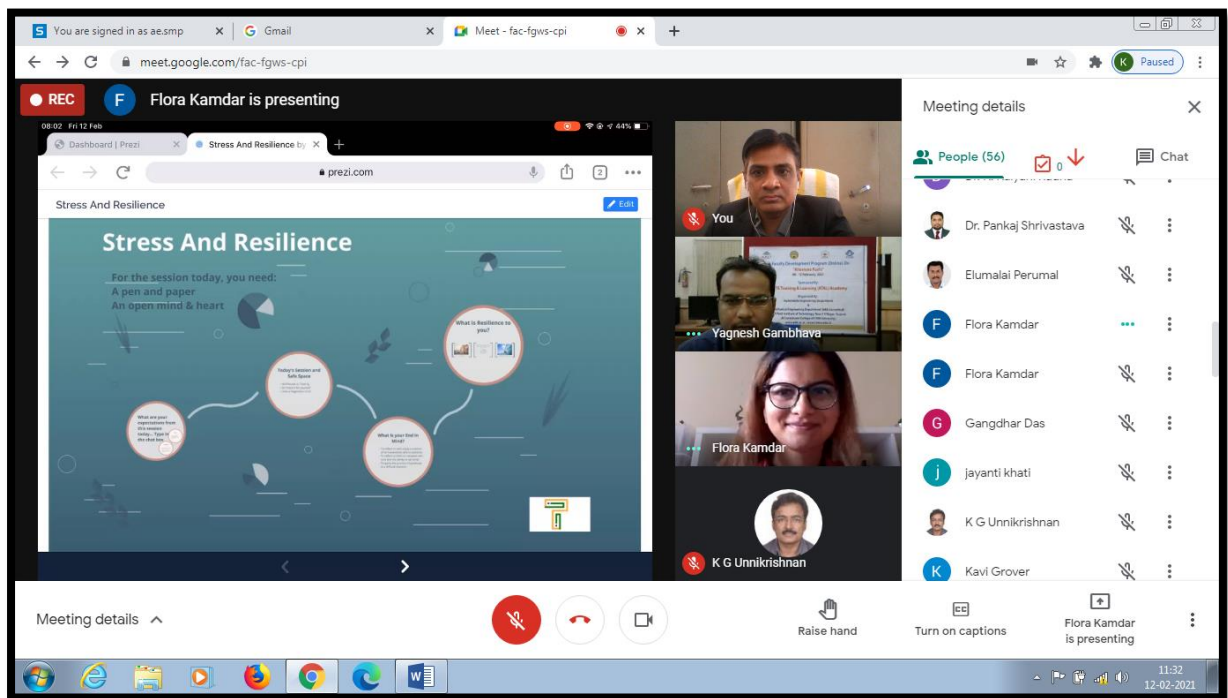
IN CALL

- Head Automobile ... (You)
- Aman Sharma
- Dr P D Patel
- Dr. Pankaj Shrivastava
- Elumalai Perumal
- Gangdhar Das

System tray: 10:00, 11-02-2021



**Date: 12/02/2021: Technical Sessions, Valedictory & Feedback Sessions.**



Meeting details

People (40) 35 Chat

Add people

IN CALL

- Head Automobile ... (You)
- A Arul Peter Vets Univer...
- Aero Karthikeyan
- Alay Patel
- Amandeep Singh
- Amit Gupta

Meeting details ^

Challenges with Mass production of EV Battery pack

Presentation made by Jimit Mehta  
Date: 12<sup>th</sup> Feb 2021

Meeting details ^

10:07 12-02-2021

ADIT | Alternative Fuels and Related Engine Technologies | ...

ADIT CVM University  
26 views • 1 week ago

ADIT | Well being and Resilience to Manage Stress | AICTE-ATA...

ADIT CVM University  
27 views • 3 days ago

ADIT | Challenges with Mass Production of EV Battery Pack ...

ADIT CVM University  
24 views • 3 days ago

ADIT | CVMUISC | WEBINAR

ADIT CVM University  
69 views • Streamed 1 month ago

ADIT | COVID-19, What a Mother needs to Know ?

ADIT CVM University

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Organized By: Engineering Department

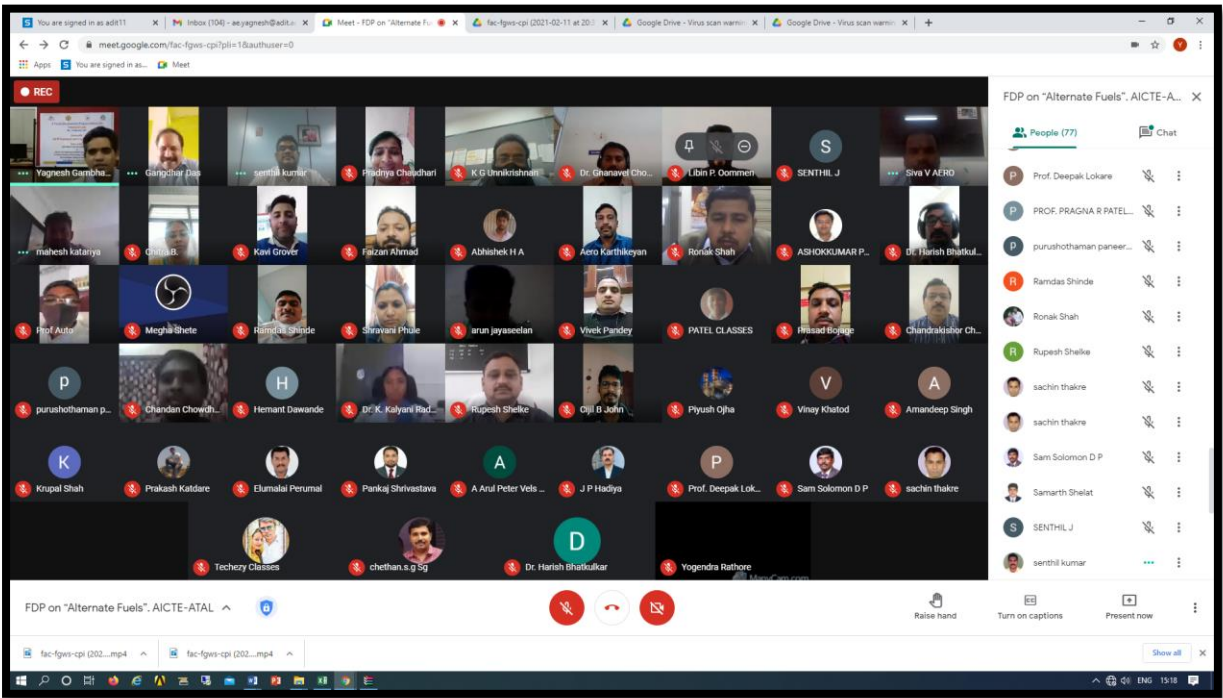
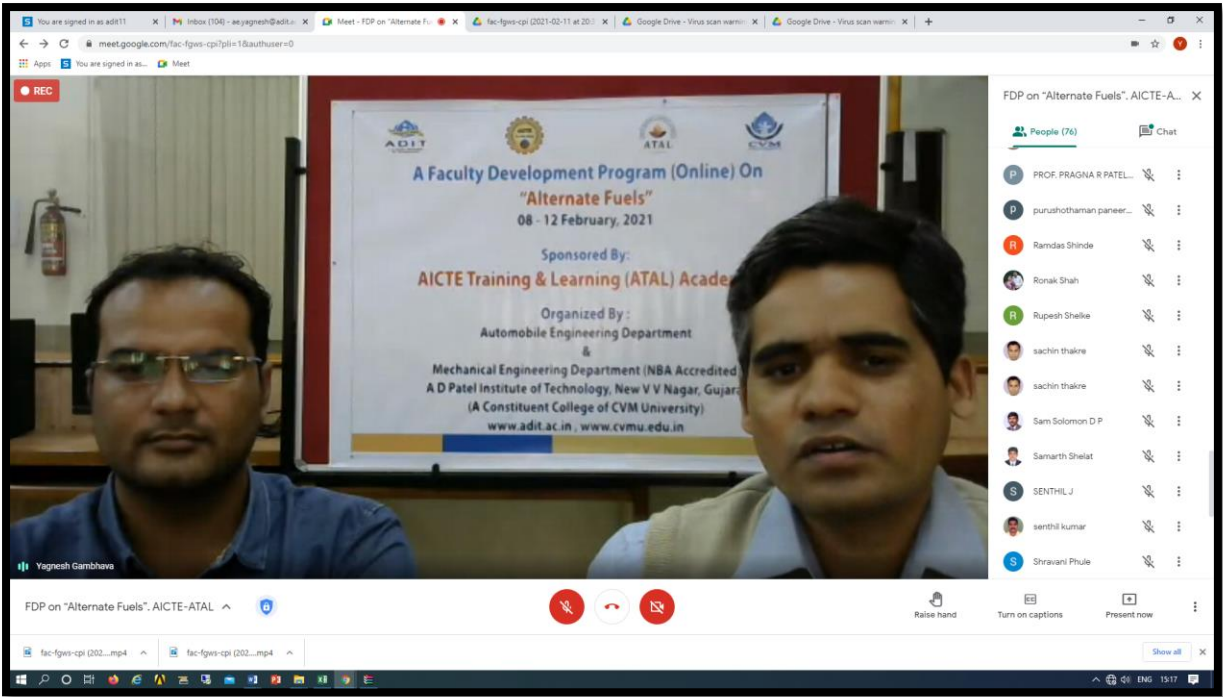
Department (NBA Accredited) Technology, New V V Nagar, Gujarat College of CVM University  
www.cvmu.edu.in

2:44 / 21:58

#cvmuniversity #adit\_cvmuniversity #AICTE

ADIT | Valedictory Session, Feedback & Quiz | AICTE-ATAL Academy





## Press Article

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



## Feedbacks (Samples) from Participants

It was really nice FDP organized by organizers. Very well and meticulously plan as per schedule. Speakers are also of high profile and more important all have delivered this sessions as per our expectations.

-Pradnya Chaudhari

Speaker and Demonstration have make the objectives of FDP made fruitful to increase level of my information respect to Alternative Fuels. Thank a lot organizing team for giving me opportunity to attend such a modern topic FDP.

-Prof. Deepak Lokare

Thanks to the Organizing Team, Mr Yagnesh, Mr Bala dutt, HOD of Automobile Engg and all eminent speakers and addressing the Qns and making it participate. Looking forward for such sessions. Thanks.

-Chandan Chowdhury

The demonstration of Laboratory on virtual mode was amazing and very useful. This is probably the first time ever I have seen such virtual session. Thanks.

- Prof. P.D.Patel

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