

A. D. Patel Institute of Technology

(A Constituent College of CVM University)



Automobile Engineering Department

**A Short Term Training Program [Online] on
“Automobile Engineering: Beginning
of New Era”**

Sponsored By:

GUJCOST,

Dept. of Science and Technology, Govt. of Gujarat

October 5th – 10th, 2020

Chief Patron

Er. Bhikhubhai B. Patel

(President, CVM University; Chairman, CVM)

Patrons

Shri Manish Patel

(Vice President, CVM)

Dr. S. G. Patel

(Hon. Secretary, CVM)

Program Chair

Dr. V. N. Singh

(Principal, ADIT)

Convener

Dr. S.M.Patel

(Head, AE, ADIT)

Program Coordinators

Dr. S.M.Patel

Prof. Y.J.Gambhava

CVM University:

Charutar Vidya Mandal (CVM), was established in the year 1945 with a prime objective of rural development through education. The uniqueness of this trust lies in its ability to use quality education as a powerful means of social transformation. Presently CVM Manages 49 educational institutions from schools to colleges and sophisticated research institutes. CVM University has been established since 2020 is spread over 700 acres and comprises of 19 institutions.

The Institute:

A D Patel Institute of Technology was established in the year 2000, is one of the pioneering institute imparting technical education in the state of Gujarat, India. The institute is located in satellite township of New Vallabh Vidyanagar having green natural environment and beautiful landscape near educational hub of the state, Vallabh Vidyanagar and Milk city Anand. Institute is running eight UG programmes viz. Automobile, Civil, Computer, Electrical, Electronics and Communication, Food Processing Technology, Information Technology and Mechanical Engineering; and Six PG programmes including Thermal Engineering, CAD/CAM, Renewable Energy Engineering, Food Technology, Artificial Intelligence and Signal Processing and communication.

About Department:

The department of Automobile Engineering was started in the year 2003, being pioneer in the state of Gujarat. Department offers Degree in Automobile Engineering at UG level. Department is having well qualified and experienced teaching faculty members including 3 Ph.D. and 5 Pursuing Ph.D. & 1 M.Tech. Department is having well equipped state of art laboratories with excellent infrastructure.

About STTP:

The ONLINE Short Term Training Program (STTP) on “Automobile Engineering: Beginning of New Era” explores the current developments in the automotive industry. The program includes expert lectures delivered mainly by Industry experts from the respective domain and by academicians, who will give a flavour of the academic research activities happening in the domain of automobiles. Apart from these, virtual hands on practice in automobile laboratories will be conducted on live virtual mode. The program is intended for the faculty members from Automobile, Mechanical and other allied branches of engineering of Degree and Diploma institutes.

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Topics Covered

- Automobile industry; past, present and future.
- Emerging green fuel technologies.
- Electric vehicles, opportunities and challenges.
- Vehicle Safety, Automobile styling & Painting Process.
- Automotive Regulatory and Government Affairs.
- Modern manufacturing concepts in automobiles.
- Modern Maintenance techniques of Vehicles.

Resource Persons

Expert Lectures from leading Automotive Industries and academicians from premier institutions.

Target Participants

Faculties from Automobile, Mechanical and other allied branches of engineering of AICTE approved Degree and Diploma institutes, and delegates from Industries are eligible to apply.

Registration

Registration Link: <https://forms.gle/gMdkVap9cw13oeHM8>

Limited Seats are available. Registration will be done on early basis.

No Registration Fees. Last date of registration: 02/10/2020

Mode Of Webinar

All sessions will be conducted Online through Google Meet Platform.

In Case Of Queries Contact

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Program Coordinator
Automobile Engineering Department
A. D. Patel Institute of Technology
New V. V. Nagar, Gujarat
www.adit.ac.in
Mobile: 9824384884
Email: ae.yagnesh@adit.ac.in



Register Here

SCHEDULE

A Short Term Training Program [online] on "Automobile Engineering: Beginning of New Era"

	Day-1	Time	Schedule
05/10/2020	Session A	2:00pm to 3:00pm	Inaugural session. Welcome address, opening remarks with Key note Speech by eminent speaker in the relevant field.
	Session B	3:00pm to 5:00pm	A Technical Session by eminent speaker.
06/10/2020	Day-2	3:00pm to 5:00pm	A Technical Session by eminent speaker.
07/10/2020	Day-3	3:00pm to 5:00pm	A Technical Session by eminent speaker.
08/10/2020	Day-4	3:00pm to 5:00pm	A Technical Session by eminent speaker.
09/10/2020	Day - 5	3:00pm to 5:00pm	A Technical Session by eminent speaker.
10/10/2020	Day - 6	10:00am to 12:00pm	Live Demonstration of latest equipments of Automobile Engineering Laboratories at ADIT.
		3:00pm to 5:00pm	A Technical Session by eminent speaker. Feedback Session, Concluding remarks, Valedictory Session.

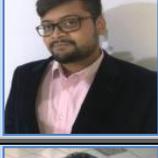
Organizing Committee:

- Dr. Ajith James
- Dr. N.M.Patel
- Prof. N.S.Yagnik
- Prof. S.J.Shelat
- Prof. S.B.Prajapati
- Prof. K.D.patel

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

**STTP on: "Automobile Engineering: Beginning of New Era"
5th to 10th October, 2020**

Sponsored By: GUJCOST, Dept. of Science and Technology, Govt. of Gujarat

05/10/20 Monday		Dr. Sudhir K Gupte Ex-Professor & Head, Automobile Engineering, ADIT, Proprietor, Prarambh Engineering Consultancy	Indian Auto Industries: Past, Present and Future.
06/10/20 Tuesday		Mr. Samarjitsinh Waghela Design Lead - Yulu Bikes Pvt. Ltd, Bengaluru, Karnataka	Design Process of Two Wheeler.
07/10/20 Wednesday		Mr. Bishnu Dutt Darnal. Sr. Training Manager, Mahindra & Mahindra STC, Nagpur.	Latest Trends in Agriculture Tractor Engineering.
08/10/20 Thursday		Mr. Dhyeya Pandya Technical Officer, ABZO Motors Pvt. Ltd, Ahmedabad	India's Dream: Automotive Electrification. Possibilities & Methods
09/10/20 Friday		Mr. Aditya Shukla Sr. Manager (Quality) Tata Motors, Sanand, Ahmedabad	Automotive OEMs Manufacturing Systems: Driving Quality to Efficiency.
10/10/20 Saturday		Mr. Subhash Joshi Ex- General Manager in Hero Motocorp	Morden Maintenance Techniques in Automotive Industries.

Program summary

An ONLINE Short Term Training Program (STTP) on “**Automobile Engineering: Beginning of New Era**” was organised during 5th October 2020 to 10th October 2020 (6 days) by Automobile Engineering Department, A.D.Patel Institute of Technology (A Constituent College of CVM University), sponsored by GUJCOST, Dept. of Science & Technology, Govt. of Gujarat.

The STTP 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 automobiles. Apart from these, virtual hands on practice in automobile laboratories was conducted on live virtual mode.

The program was started on 5th October 2020 at 2 pm with inaugural session. Welcome address was given by Dr. Sanjay Patel, Head, Automobile Engg., opening remarks by Dr. Vishal Singh, Principal, ADIT with Key note Speech delivered by Dr. Sudhir Gupte, Proprietor, Parambh Engineering Consultancy, Vadodara. Dr. Sudhir Gupte has also delivered a technical session on Indian Auto Industries: Past, Present and Future.

On 6th October 2020, Mr. Samarjitsinh Waghela, Design Lead, Yulu Bikes Pvt. Ltd, Bengaluru, Karnataka has delivered a technical session on Design Process of Two Wheeler.

On 7th October 2020, Mr. Bishnu Dutt Darnal, Sr. Training Manager, Mahindra & Mahindra STC, Nagpur, has delivered a technical session on Latest Trends in Agriculture Tractor Engineering.

On 8th October 2020, Mr. Dhyeya Pandya, Technical Officer, ABZO Motors Pvt. Ltd, Ahmedabad has delivered a technical session on India's Dream: Automotive Electrification. Possibilities & Methods.

On 9th October 2020, Mr. Aditya Shukla, Sr. Manager (Quality), Tata Motors, Sanand, Ahmedabad has delivered a technical session on Automotive OEMs Manufacturing Systems: Driving Quality to Efficiency.

On 10th October 2020, Mr. Subhash Joshi, Ex- General Manager, Hero Motocorp, Halol has delivered a technical session on Modern Maintenance Techniques in Automotive Industries.

On 10th October 2020, Dr. Nimit Patel along with other faculty members of Automobile Engineering Department, ADIT has demonstrated latest laboratory equipments available at Automobile engineering laboratories, ADIT. The session was useful for the participants to get knowledge about latest automotive equipments.

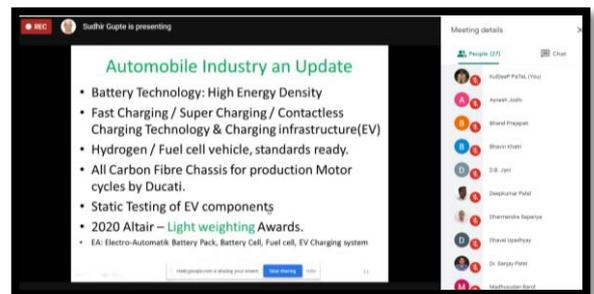
Dr. Sanjay Patel, Program co-ordinator & Head of the department, Automobile Engineering, Dr. Vishal Singh, Principal, ADIT, organising committee of the event, and all the participants are thankful to GUJCOST, DST, Govt. of Gujarat for sponsoring the STTP.

Photographs of the STTP: “Automobile Engineering: Beginning of New Era”

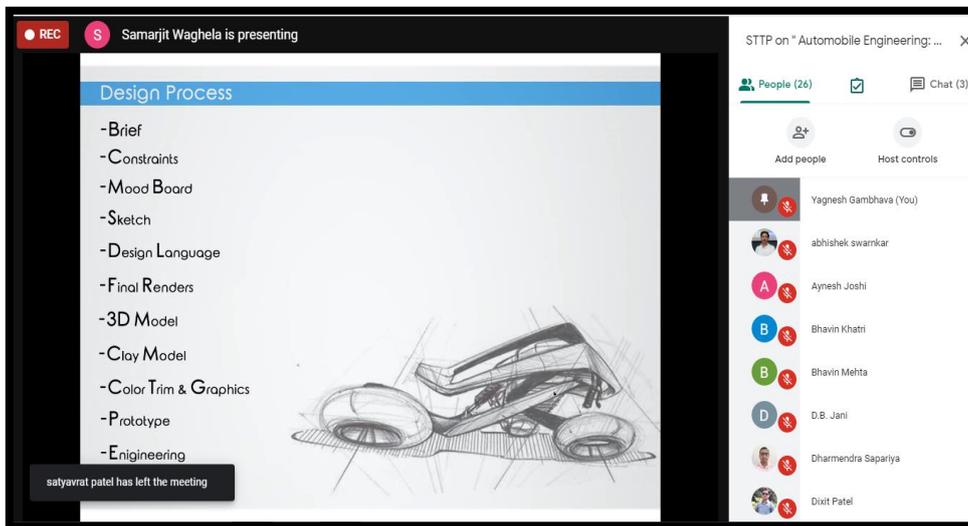
Banner:



Date: 05/10/2020: Inauguration & Technical Session



Date: 06/10/2020: Technical Session



Date: 07/10/2020: Technical Session



WHEEL TRACK - A vehicle's track, or track width, is the distance between the center line of each of the two wheels on the same axle on any vehicle.

FRONT WHEEL TRACK – the distance between the center line of FRONT two wheels of the tractor.

REAR WHEEL TRACK – the distance between the center line of REAR two wheels of the tractor.

CMVR – as per CMVR (Central Motor Vehicle Rule), the FRONT & REAR track of an automobile cannot be changed legally.

Front Wheel Track

Rear Wheel Track

People

Currently in this meeting (3)

- CS CHOUHURY SOUMITRA S...
- DB DARNAL BISHNU
- RA ROY AVIK, Organizer

Date: 08/10/2020: Technical Session

APIT
अपि इति कृतेन सत्यं सविज्ञं ह्यु विवेकं ।
ISO 9001 : 2015

Presents

India's dream : Automotive electrification. Possibilities.

By : Dhyyea Pandya,
Technical officer,
ABZO motors Pvt. LTD.,
Ahmedabad

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ABZO MOTORS PRIVATE LIMITED

Short Term Training Program on Automobile Engineering Beginning of New Year 2021-2022
Organized by DSEI, Govt. of Gujarat
Dhyyea Pandya

Meeting details

People (10)

- Dhyyea Pandya (You)
- Dhyyea Pandya (Your presentation)
- Abhishek Zaverdar
- Elavin Khatri
- Elavin Mehta
- Chamunda Sagarjia
- Dhanal Upadhyay
- KUDHAP PATEL

Short Term Training Program on Automobile Engineering Beginning of New Year 2021-2022
Organized by DSEI, Govt. of Gujarat
Dhyyea Pandya

Date: 09/10/2020: Technical Session



Date: 10/10/2020 Morning Session



Date: 10/10/2020 Evening Technical Session



1.4 MAINTENANCE SINCE 1990-2010

**MECHANICAL+ELECTRICAL+ELECTRONICS
+COMPUTERS**

- Machines became complex, with CNC, PLC, and diagnosis needed Special tools and Experts .
- Machine Working through Numerical Controls and Mechanical parts became simple, but Hydraulics got complex.
- Now Electronics Engineers needed to understand which parts are troubling in functioning, and were judge for Electrical vs. Mechanical dilemma
- But Diagnosis longer time than resolution, delay in repair were impatient for Top Management, as Automation had escalated the production loss

Date: 10/10/2020: Valedictory Speech

Apowersoft
ApowerEdit

Dsi
Department of Science & Information
Technology, Gandhinagar, Gandhinagar

CVM
CVM University

Short Term Training Program
on
"Mobile Engineering: Beginning of New Era"
05th -10th Oct, 2020

Sponsored by:
DST, Govt. of Gujarat

Engineering Department
New V V Nagar, Gujarat
(of CVM University)

Yagnesh Gambhava

News Paper: Sardar Gurjari

સી.વી.એમ. યુનિવર્સિટીની એડીઆઈટી કોલેજને GUJCOST, ગુજરાત સરકાર તરફથી ગ્રાન્ટની ફાળવણી

આણંદ, તા. ૪ થઈ છે. એમીશન્સ એન્ડ ગ્રીન ફ્યુઅલ ટેકનોલોજી" વિષય પર તા. ૧૨ થી ૧૭ ઓક્ટોબર ૨૦૨૦ દરમિયાન એસટીટીપીનું આયોજન થશે. બંને પ્રોગ્રામનાં આયોજન માટે મળેલી ગ્રાન્ટ માટે સી.વી.એમ.ના માનનીય અધ્યક્ષ ભીખુભાઈ પટેલ તથા અન્ય હોદ્દદારોએ એડીઆઈટી કોલેજને અભિનંદન પાઠવ્યા હતા અને GUJCOST નો આભાર વ્યક્ત કર્યો હતો.

આણંદ, તા. ૪ થઈ છે. એમીશન્સ એન્ડ ગ્રીન ફ્યુઅલ ટેકનોલોજી" વિષય પર તા. ૧૨ થી ૧૭ ઓક્ટોબર ૨૦૨૦ દરમિયાન એસટીટીપીનું આયોજન થશે. બંને પ્રોગ્રામનાં આયોજન માટે મળેલી ગ્રાન્ટ માટે સી.વી.એમ.ના માનનીય અધ્યક્ષ ભીખુભાઈ પટેલ તથા અન્ય હોદ્દદારોએ એડીઆઈટી કોલેજને અભિનંદન પાઠવ્યા હતા અને GUJCOST નો આભાર વ્યક્ત કર્યો હતો.

સી.વી.એમ. યુનિવર્સિટીની ન્યૂ વલ્લભ વિદ્યાનગર સ્થિત એડીઆઈટી એન્જિનિયરીંગ કોલેજના ઓટોમોબાઈલ રિપાર્ટમેન્ટને ફેકલ્ટી ડેવલપમેન્ટ માટેનાં બે અલગ અલગ શોર્ટ ટર્મ ટ્રેનીંગ પ્રોગ્રામ માટે GUJCOST, રિપાર્ટમેન્ટ ઓફ સાયન્સ એન્ડ ટેકનોલોજી, ગુજરાત સરકાર તરફથી રૂા. ૪૦,૦૦૦ જેટલી ગ્રાન્ટ મંજૂર થઈ છે. આ સંદર્ભે પ્રથમ પ્રોગ્રામ કો-ઓર્ડિનેટર ડો. સંજય પટેલ અને પ્રો. યજ્ઞેશ ગાંભવાએ જણાવ્યું હતું કે તા. ૫ થી ૧૦ ઓક્ટોબર ૨૦૨૦ દરમિયાન "ઓટોમોબાઈલ એન્જિનિયરીંગ: બિગિનિંગ ઓફ ન્યૂ ઈરા" પર એસટીટીપી યોજાશે. બીજા પ્રોગ્રામ કો-ઓર્ડિનેટર ડો. નિમિત્ત પટેલ પ્રો. કુલદીપ પટેલના જણાવ્યા મુજબ "ઓટોમોટીવ એન્જિન,

5th October, 2020: Pg.3