



Automobile Engineering Department



Autobulletin

E-Newsletter (Issue:2, November 2020)

Dr. S. & S. S. Gandhi College
Of Engineering & Technology, Surat



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GRAPHICS

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From the desk of HOD

A Paradigm shift from offline to online education

Dear Readers,
Hope you all are safe.

An unprecedented situation worldwide due to COVID-19 pandemic has compelled all the educational institutes to switch from traditional physical classroom education to the online classes. All the stakeholders like faculties, students, parents, industry and society are trying to adapt this new normal.

We all know that students staying in rural areas and with poor economic background face severe issues of internet connectivity and lack of physical resources. Even institutes and faculties have limited facility for online education. Besides that, students and faculties are not acquainted with online teaching process.

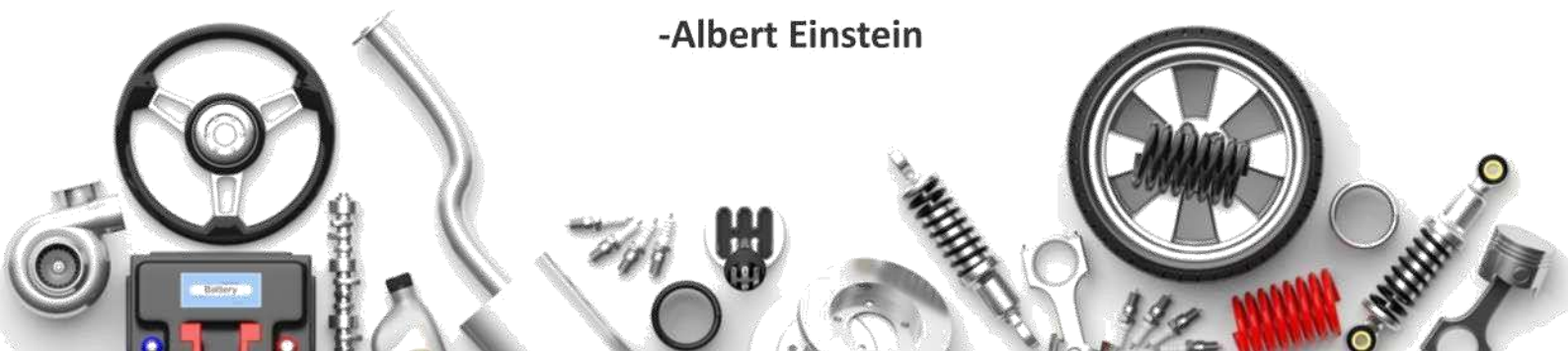
With all the existing adversities, Automobile Engineering Department is committed to provide scholarly environment to students through various online platforms. Various teaching methods like power point presentations, video demonstrations, group discussions and picture quizzes are used to engage students and sustain their interest during online classes in Microsoft Teams. Continuous evaluation of students' performance is done through assignments and quizzes.

I don't think online classrooms can replace the traditional offline teaching learning process. However, education is changing and will continue to change as technology improves. In my opinion, blended learning will be the new normal globally, where students are provided with online space as well as they can meet faculties face to face to not only learn the technical concepts but also possess life skills and build lasting relationship with each other. Wishing you all the good health and happiness.

Mrs. Sweety Ganatra
Head Of Department,
Automobile Engineering

The measure of intelligence is the ability to change

-Albert Einstein



Know the Faculty

Automobile Department



Mrs. S.S. GANATRA (HOD)



Mr. G.A. KAPADIA (LAE)



Mr. J.G. KEDARIA (LAE)



Ms. S.S. MAITRA (LAE)



Mr. R.J. LADUMOR (LAE)



Mr. K.V. JADAV (LAE)



Mr. C.A. PATEL (LAE)



Mr. S.K. MODI (LAE)



Mr. A.D. PATEL (LAE)



Mrs. N.M. DANGARIA (LAB ASST.)

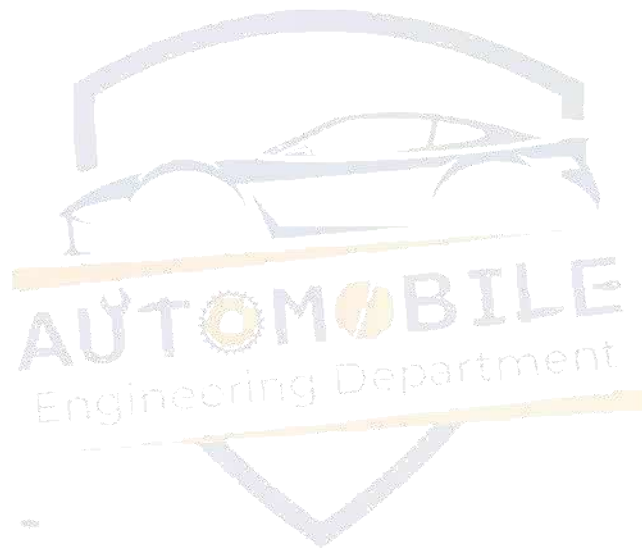


Know the Department

Automobile Department

Automobile Engineering Department established in 1958, is one of the pioneering departments of Dr. S. & S. S. Gandhi College Of Engineering And Technology, Surat. Institute is running under Department of Technical Education, Government of Gujarat. Diploma automobile engineering program is approved by All India council for technical education (AICTE), New Delhi and is affiliated to Gujarat Technological university-Ahmedabad.

Automobile engineering is a branch of engineering which deals with designing, manufacturing, operating, repair and diagnosis of vehicles. It is a segment of vehicle engineering which deals with motorcycles, cars, buses, trucks, etc. It includes mechanical, electrical, electronic, dynamics, software and safety elements. The department has qualified faculty members engaged in teaching learning process with the aim of achieving excellence in the field of automobile engineering.



FACULTY



Activities/Achievements



EXPERT LECTURE DELIVERED

FACULTY NAME :- Mr. K.V.Jadav
TOPIC :- “How to prepare for competitive exams (GPSC)”



DATE: 31-05-2020

VENUE
LIVE WEBINAR, R.N.G.P.I.T,
BARDOLI

CONTACT PERSON:- 9727712005
MAIL ID:-
erkiranjadav2005@gmail.com

CONDUCTED QUIZ

CO-ORDINATOR NAME :- Mr. K.V.Jadav
TOPIC :- “Basics of Automobile”
DATE :- 20-10-2020
NO OF PARTICIPANTS - 590



FACULTY DEVELOPMENT PROGRAM



Sr. no	Training title	Duration	Faculty participated
1.	Marketing of Educational services	10/02/2020 to 14/02/2020	Mrs. S.S.Ganatra
2.	Statistical Tools In Science And Engineering Research With Application	02/03/2020 to 06/03/2020	Mr.R.J.Ladumor
3.	MOOC-Accreditation For Diploma Engineering Programs	27/01/2020 to 13/04/2020	Mrs. S.S.Ganatra, Mr. K.V.Jadav & Mr. A.D.Patel.
4.	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method Of Learning)	28/07/2020 to 18/08/2020	All Faculties of Department
5.	"Comprehensive Online Intellectual Property Rights (IPR)"	6/07/2020 to 14/09/2020	All Faculties of Department

“EVERY ARTIST WAS FIRST AN AMATEUR”

-Ralph Waldo Emerson

Students

Activities/Achievements

Automobile V-logger

Hello reader,

I am Deep kharwar, student of diploma automobile engineering. I am passionate about video-logging and aware the public from myths....

I like to travel very much.

I have created you tube channel namely "DJK 666" on which I reviewed different cars and motorbikes exploring their features for public awareness.

I had explored driving experience, accessories and features, electric bikes.

I had created 68 video logs till date and heading towards more.



:: MY CONTACT DETAILS ::

Deep Kharwar

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LOCKDOWN DIARY

When lockdown was announced by our Hon. Prime Minister Shri Narendra Modi and was in force from 24th March, 2020, I decided to learn new things of my interest and life skills which will make me a prominent human being. I decided to first learn **Virtual Photography** which is a lesser known field. Capturing in-game images to share with the gaming community and car enthusiasts like me is what is done in virtual photography. I learned this skill on GTA V through YouTube and I was very happy with the results.

The second thing I decided to master was **Cooking** in which I was very keen from very beginning. Earlier, I used to make only confectionaries (Pancake, Donuts, Cakes, etc) but I wanted to learn making proper 3 meal course. I got this opportunity during lockdown and learned this skill from YouTube as well. Now, I can prepare all types of vegetables, dals and chapattis (Paratha, Thepla, Puri, etc).

The last thing which I learned during lockdown was about **Motorsports Engineering** in which my interest grew during lockdown. I looked online for some good courses and stumbled upon an organization “My Captain” which is affiliated by IIM Bangalore and has ‘mentors’ who are very skillful in this field. I took the course which opened new fields for my career in my chosen and interested field. This was one of the best decisions of my lockdown.

Thank you
Harshit Satyen Sharma
186120302013 (Semester 6)



“As an important stakeholder of automobile sector the onus is on us to be in frontrunner to lead for road safety awareness among society and make it safer.”

DRIVING

NOT A RIGHT BUT PRIVILEGE.

In today's world road and transport has become an integral part of every human being. Everybody is a road user in one shape or the other. The present transport system has minimized the distances but it has on the other hand increased the life risk. Every year road crashes result in loss of lakhs of lives and serious injuries to crore of people.

In India itself about eighty thousand people are killed in road crashes every year which is thirteen percent of the total fatality all over the world. Man behind the wheel plays an important role in most of the crashes. In most of the cases crashes occurs either due to carelessness or due to lack of road safety awareness of the road user. Hence, road safety education is as essential as any other basic skills of survival.

Prime aim of road safety information for road users is to encourage safer road user behaviour among current and prospective road users and reduce the number of people killed and injured on our roads every year.

Ways that makes you efficient drivers include things like

1. Maintain your vehicles by checkups on tires, brakes, lights, wipers, and fluid levels and make sure your mirrors, windows and outside lights are clean for good visibility.
2. Don't drink and drive
3. Avoid Distractions- Don't use mobile phones while driving.
4. Adjust Mirrors-check your mirror and adjust them, Use the mirrors to keep an eye on traffic behind you.
5. Wear Your Seat Belt
6. Signal Your Intentions- Indicate side lights as per turn you make as per norms.
7. Watch Your Speed- Follow speed limit rules.



“A driver on road is safe **NOT** when he know vehicle rules and road sign, but when he **OBEYS** them.”

ROAD SAFETY RULES FOR CAR



ALWAYS WEAR A SEAT BELT

Make sure you're belted up at all times, even if you're in the rear. Seat belt not only saves you from fines but keeps you protected.



AVOID DISTRACTIONS

Distraction is the major cause for road accidents. Avoid using mobile phones, stay alert and focused when driving.



NEVER DRINK & DRIVE

Driving under the influence of alcohol is a crime. Driving in any sort of intoxicated state can lead to judgment errors and mishaps.



ALWAYS RESPECT SPEED LIMIT

Follow the speed limit and drive safe. Excess speed can lead to accidents or attract fines from traffic authorities.



NEVER JUMP A TRAFFIC SIGNAL

Jumping a traffic signal or red light might lead in a crash with other commuters. It is a strict traffic violation that can lead to serious consequences.



MAINTAIN YOUR CAR

One must always maintain and take good care of their car. An ill maintained car can be troublesome to both you

KEEP A
SAFE DISTANCE



DON'T DRINK &
DRIVE



2020

WILL BE THE DECADE OF THE ELECTRIC VEHICLE

It is predicted that by 2030 half of cars sold will be electric. This, plus Tesla's September announcement, should surely spur on many parties to ramp up their electric vehicle (EV) strategy. Drivers who have already made the switch are enjoying innovations such as software and connectivity-enabled features, plus, of course, a lower carbon footprint. This is a huge selling point, with many consumers keen to do “the right thing” and drive a car that has, at worst, a net zero impact on the environment. If uptake is really to increase as the decade progresses, the current barriers of cost, battery range and lack of viable charging points all need to be addressed urgently.

“Whoever corners the market in new model production and reaches an economy of scale first has a big decade ahead “

Theoretically, Tesla has answered concerns around battery range—a million miles far exceeding the lifetime of any car, plus even the existing batteries are outstanding when it comes to mileage. The real barrier here is fear. Consumers still need convincing that they won't run out of charge. This worry can be addressed through better education from manufacturers, better coordination between charge point providers and improved usability and reliability of charging points.

“The real barrier here is fear. Consumers still need convincing that they won't run out of charge”

And the decade won't just see a boom for the automotive, manufacturing and energy companies. The net of opportunity spreads as far as oil companies seeking to invest in charging point infrastructure to backfill lost gasoline revenues, insurers providing additional policies and telecoms companies wanting to increase connections to their 5G networks. So, watch this space. It looks like a world where roads are dominated by EVs is not a million miles away.



AN INSIGHT INTO

ELECTRIC

CAR



In recent times there is a drastic change in the automobile industry, as electrically running vehicles are on the road. According to a new report from the International Energy Agency, the number of electric cars on the road is predicted to expand to 125 million worldwide by 2030, due to supportive policies and cost reduction.

The electric vehicle is a revolution in the automotive field, as Electric vehicle (EV) consumes electricity from various sources like the internal battery, charged by the external sources, a generator converting fuel into electricity and equipping solar panels. The electric vehicle is not restricted to locomotives and roads but they also work underwater and in the Air. As there is an increase in the price of the fuels, the electric vehicle forayed in the market for serving the automotive industry.

These vehicles are very efficient with low power consumption and long travelling range. Earlier they are charged for a long time with a low travelling distance. Now, the advanced ones are very hastily charged. EV's are now in a wide variety of designs and configurations.

Nissan introduced its first electric vehicle in Japan and the United States in 2010 and followed by other countries. This award-winning electric car's count reached more than 350,000 all over the world by Sept 2018. Its battery is charged 0-80% in just 30 Minutes it travels 243km (151 miles) once it fully charged. In BEV's, the front engine space is empty as the batteries are found at the bottom of the car such that it controls the rollout. Few BEV's (Battery electrical vehicle) are known as independent vehicles as they installed solar panels on the vehicle, which converts the solar energy into electricity and charge the battery.

As per a research, the battery charging time increases when there is a drop in temperature. The chemicals in the battery react to the conditions and lower the battery charging capacity. It is suggested that limiting the charging time will benefit the battery for a longer run.

Some state government realizing their role have tried to eradicate one of the major barriers to owning an EV i.e. the high initial cost. This can be seen in the example of Maharashtra where subsidies were announced amounting to 1 lakh for electric vehicles. Consequently, Maharashtra had the highest sales volume in 2017 in the Indian electric car market. The government has also realized that it is best to target their efforts towards the public transport system in the initial stages.

This is because the purchase of EV in the private sector will depend on major other factors like attractiveness etc. The public transport system being one of the most heavily used in a country like India will definitely offer a huge boost to the sector. chase of EV in the private sector will depend on major other factors like attractiveness etc. The public transport system being one of the most heavily used in a country like India will definitely offer a huge boost to the sector.



In this article, we discussed the list of the top Electric Vehicle Manufacturers in India, their current work in EV segment, and future prospects. The Indian government had set up the aim of replacing all internal combustion engines with EV's by 2030 .

In addition, the steps taken in order to enable acceptance of EV will not suit their main purpose if alternative means of electricity production are not implemented. Currently, up to 60% of the electricity is produced from coal. Although the government has set major aims to bolster the growth of EVs a lot more has to be done in order to ensure they are implemented.



ડિપ્લોમા ઈજનેરીથી ડિગ્રી ઈજનેરી (ત્રીજા સેમેસ્ટર)માં સીધા પ્રવેશ અંગે પ્રવેશ ઈચ્છુક વિદ્યાર્થીઓને જાણવાજોગ - પ્રવેશ વર્ષ ૨૦૨૦

પ્રવેશ વર્ષ ૨૦૨૦થી ડિપ્લોમા ઈજનેરીથી ડિગ્રી ઈજનેરી (ત્રીજા સેમેસ્ટર)માં સીધા પ્રવેશ અન્વયે AICTE Approval Process Handbook 2020 અને રાજ્ય સરકારશ્રીના તા. ૦૭.૦૭.૨૦૨૦ના ડિપ્લોમા ઈજનેરીથી ડિગ્રી ઈજનેરીના પ્રવેશ નિયમો મુજબ ડિપ્લોમાથી ડિગ્રી ઈજનેરી પ્રવેશ અન્વયે AICTE દ્વારા નક્કી કરાયેલ લઘુત્તમ પ્રવેશ લાયકાત ધરાવતા ડિપ્લોમા હોલ્ડર્સ કોઈપણ ડિગ્રી ઈજનેરીની બ્રાન્ચમાં પ્રવેશ મેળવી શકશે.
તા. ૧૭.૦૮.૨૦૨૦ – સભ્ય સચિવશ્રી