



## Automobile Engineering Department



# Autobulletin

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E-Newsletter (Issue:1, March 2020)

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



## Editorial Team

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*Hello Everybody,*

*It is our pleasure to announce that Automobile Engineering Department, Dr. S.& S.S. Ghandhy College of Engg. & Tech., Surat is going to issue an e newsletter, “**Autobulletin**” at every six months.*

*The newsletter will give insight about department, faculties at department, activities takes place at department level for overall development of students, achievements of students & faculties and their contribution towards society. It will also provide glimpse of latest trends and technological advances in automotive sector. We will try to add some interesting and useful information for common users as well as for auto enthusiast. We hope you will enjoy and appreciate the content of the newsletter.*

*Have a great time... Happy reading.*

-Editorial Team



## *Message from HOD's Desk*

### Transition in Automotive Sector

Dear Readers,

I hope you all are in pink of your health.

The Automotive Industry is increasingly becoming a center of attraction across the globe. The attention and importance to the Automotive Industry in the economic development and planning policies of the government has also witnessed significant rise.

The Industry has been evolving over the years meeting up with all the challenges and thereby adapting to the new market conditions.

The current digital transformation like Connectivity, Predictive maintenance based on IoT Connectivity tools, Advanced data security and protection, Service oriented mobility, Digitized vehicle manufacturing and buying are some of the very impressive trends in the automotive industry , giving consumers a digitally enhanced experience.

The young and techno savvy generation will be a significant driver in the development of more sustainable and convenient mobility solutions in the next few years. Government policies on widespread electrification of public and private transport will also play a major part in this transformation by 2030.

Cheers,

Mrs. Sweety Ganatra  
Head Of Department,  
Automobile Engineering

*“It's not faith in technology. It's faith in people”*

- Steve Jobs

## KNOW THE 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 and is affiliated to Gujarat Technological university-Ahmedabad. Diploma automobile engineering program is approved by All India council for technical education (AICTE), New Delhi. The department has qualified faculty members engaged in teaching learning process with the aim of achieving excellence in the field of automobile engineering.

## Vision of the Department

“To be a center of excellence in technical education to prepare diploma automobile engineers with innovative technical and professional skills suitable to automotive industry and the society.”

## Mission of the Department

1. To impart globally viable technical core competencies and skills related to Automobile Engineering.
2. To provide scholarly and vibrant learning environment for achieving professional excellence and innovation.
3. To strengthen the institute – industry relation to stay updated with dynamic behavior of automotive sector.
4. To inculcate professional ethics and moral values amongst the students.

## Program Educational Objectives

The program in Automobile Engineering will prepare students

1. To make successful career in the field of Automobile service, Manufacturing, Road Transport, Motor Insurance and allied automobile sector.
2. To pursue and excel in higher education for their professional development.
3. To demonstrate professional ethics and ethos with life-long learning, contributing to the betterment of the society.

## Program Specific Outcomes

Diploma Automobile graduate will be able

1. To identify, test, analyze and solve problems related to vehicle service.
2. To inspect road transport and conduct motor insurance survey.

# Know the Faculty

## Automobile Department



Mrs. S.S. GANATRA (HOD)



Mrs. M. N. VIBHAKAR (LAE)



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. S.K. MODI (LAE)



Mr. A.D. PATEL (LAE)



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

# Co-Curricular & Extracurricular Activities at Department

## Industrial Visit

### 1. Desai Auto & Diesel service, Udhana

- Date– 22/01/2020
- Students learn about calibration and phasing of diesel fuel injection pump, servicing and cleaning of various fuel injectors.



### 2. Kataria Automobiles, Piplod

- Date– 23/01/2020
- Students learn about various latest tools & equipments, Wheel alignment & balancing machine, vehicle body repairing tools.



### 3. I.T.I, Surat (siemens)

- Date-21/01/2020
- Students learn about Computer numerical control machine and various machining operations carried in automated way using machining codes.

Industrial Training Institute, Surat

Superior Technology CNC-VMC Training



## Other Activities

### 1. Expert Lecture

Expert Lecture delivered by Mr. Bhavesh Pandav (Motor surveyor, loss assessor & valuer) on 10/02/2020 on Motor surveying & Loss assessment. Students acknowledged with opportunities in career of Motor surveyor and loss assessor.



2. **Group Discussion** arranged for 4th semester students on 05/02/2020 as a part of improving presentation skill as well as to inculcate leadership and team working qualities. Topics like Social media: Curse or Boon, Joint Family were discussed with great enthusiasm.



### 3. Let's end plastic waste

Seminar to aware students about ill effects of plastic pollution was organised on 01/10/2019. Students were motivated to minimise plastic waste and innovate alternative ways to end plastic hegemony.

### 4. Fire Disaster preparedness:

Students acknowledged with complete hands on procedure of operating Fire extinguisher. Procedure of "PASS" demonstrated live to students. Exercise performed by students and faculties of Automobile Department and demonstrated by Mr. Bhargav Patel on 17/01/2020.



### 5. Design to build better

Seminar On AUTOCAD was Organised on 03/01/2020, presented By Team Of Khodiyar Cad Centre. Basics of computer aided designing was thoroughly explained. Highlights of importance of CAD in current day automotive sector and career opportunities in it were imparted to students. Students with orientation in design shown keen interest to build career in this sector.

### 6. Let's Walk the talk of Bapu

150th birth anniversary of Mahatma Gandhiji was celebrated on 30/09/2019 remembering his lessons for life. Relevance of thoughts of Gandhiji in present day was discussed with students. Students were motivated to follow the ideology of Mahatma Gandhi in individual's life to build a better world.

### 7. Safe Roads for All- "Sadak Suraksha – Jeevan Raksha."

Road safety week was celebrated from 11/1/2020 to 17/01/2020.

Automobile department staff and students brainstormed on improving safety provisions in automotives. Students were motivated to make a safe transportation for all and realised their role as a stakeholder of transportation sector.





## 8. Seminar for students undergoes Industrial training

Full time Industrial training is included in curriculum during 5th semester of automobile engineering programme. A seminar on how to avail maximum benefits of industrial training was organised for students undergoing training on 06/02/2020 . Things like important equipments, servicing procedure, actual overhauling of components & tools required for it etc. which need to be learn during training were explained to students along with report writing on service procedure.



## Faculty professional Development

### 1. Mrs. S.S.Ganatra

- Training on “NBA Accreditation”
- Venue– GEC Surat
- Duration-26/08/2019 to 30/08/2019

### 2. Mr. J.G.Kedaria

- Training on “Recent trends in Automotive sector”
- Venue– NITTTR Bhopal
- Duration- 26/08/2019 to 30/08/2019

### 3. Mrs. S.S.Ganatra

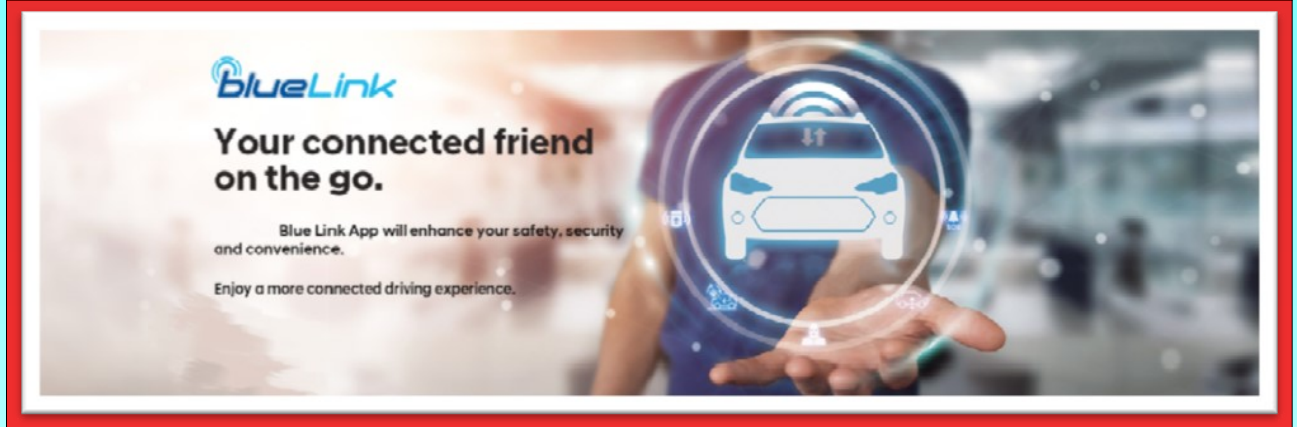
- International Conference on Gender equity: Challenges & opportunities.
- Venue- SVNIT, SURAT
- Duration: 19-20 December 2019

### 4. Ms. S.S.Maitra

- Training on “Recent trends in Automobile”
- Venue– NITTTR Extention, RCTI , A’BAD
- Duration-24/02/2020 to 28/02/2020



**“Enjoy a special bond with your car”**



## **Connected Car**

As the global connected car market continues to grow, infotainment systems and safety assistance technology are expected to be two of the biggest trends in the connected vehicle market over the next few years.

Despite every manufacturer having a different name for their connected service, they all provide similar functionality.

It provides a platform that enables an easy flow of critical information between you and your car. It is an Artificial Intelligence based technology, with inbuilt SIM card and a 24x7 call centre that enhances your safety, security and convenience. It can perform a range of functions with ease.




Manufacturers offer these services generally as a subscription model that you pay for annually. This technology primarily uses 3G/4G data connections to allow for the vehicle to communicate with mobile devices, smart assistants, or websites from anywhere in the world.

## **Connected Car Service Brand**













These services can be referred differently by different vehicle manufacturers such as Genesis - Genesis Connected, Hyundai - Blue Link, Kia - UVO, BMW - Connected Drive, Audi - Audi Connect, Mercedes - Mercedes me, Volvo -Sensus Connect.

# Hyundai Blue link Features

## ARTIFICIAL INTELLIGENCE

-  Voice Assist Dialing
-  Vehicle Navigation System
-  Interactive Voice Recognition




## CONVENIENCE

-  Remote Engine Start/Stop
-  Remote Climate Control (A/C) with Engine Start
-  Remote Door Lock/Unlock
-  Remote Horn & Light Control
-  Remote Vehicle Status Check
-  Find My Car Location
-  Share My Car (App sharing)
-  Share the Destination
-  Real-Time Vehicle Tracking
-  Schedule linked Destination Setting
-  Push Maps from App
-  Real-Time Point of Interest Search
-  Push Maps by Call Centre
-  Real-Time Traffic Information
-  Share & track vehicle location by family





## SECURITY

-  Stolen Vehicle Tracking
-  Stolen Vehicle Immobilization
-  Stolen Vehicle Notification
-  Geo-Fence Alert
-  Speed Alert
-  Valet Alert
-  Time Fencing Alert
-  Idle Alert
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## EFFICIENCY

-  Auto & Manual DTC Check
-  Monthly Health Report
-  Driving Behaviour/Information

## SAFETY

-  Auto Crash Notification
-  SOS/Emergency Assistance
-  RSA (Roadside Assistance)
-  Panic Notification

## Future scope of Diploma Automobile Engineers



*“Do the things you are afraid to do and the death of Fear is certain”*

*-Ralph Waldo Emerson*