



# AISSMS



**POLYTECHNIC**



AY 2021-22 Issue I

Staff Editors: Mr. G.M.  
Nagane, and Mr. M. S.  
Bhave

Student Editor: Ansh  
Kore (TYAE Student)

Published by:  
Automobile  
Engineering

**Our  
Polytechnic  
is a Centre  
of Academic  
Excellence!**

## **Vision, Mission and Objectives of AISSMS Polytechnic.**

### **VISION:**

Achieve excellence in quality technical education by imparting knowledge, skills and abilities to build a better technocrat.

### **MISSION:**

- Empower the students by inculcating various technical and soft skills.
- Upgrade teaching-learning process and industry-institute interaction continuously.

### **OBJECTIVES:**

- To inculcate learning habits in students by project based learning.
- To strengthen all the departments by encouraging faculty development.
- To motivate students for personality development, career guidance and encourage the spirit of team work.
- To strengthen industry – institute interaction and develop entrepreneurship skills.



# AISSMS



## POLYTECHNIC



AY 2021-22 Issue I

Staff Editors: Mr. G.M.  
Nagane, and Mr. M. S.  
Bhave

Student Editor: Ansh  
Kore (TYAE Student)

Published by:  
Automobile  
Engineering

**Our  
Polytechnic  
is a Centre  
of Academic  
Excellence!**

Vision, Mission and Objectives of Automobile  
Engineering Department

VISION:

“To achieve excellence in technological and social aspects of automobile engineering.”

MISSION:

- Comprehensive development of student by using state of art infrastructural facilities.
- Development of engineering mind-set within the students.
- Continuous enhancement of skill sets of student and faculty through industry-institute interaction.
- Imparting social and ethical values among the students.

PEO:

- Provide socially responsible, environment friendly solutions to Automobile engineering related broad-based problems adapting professional ethics.
- Adapt state-of-the-art Automobile engineering broad-based technologies to work multi-disciplinary work environments.
- Solve broad-based problems individually and as a team member communicating effectively in the world of work.



# AISSMS



POLYTECHNIC



## Index

AY 2021-22 Issue I

| Sr. No. | Name of article/Item                  | Author                           | Page no. |
|---------|---------------------------------------|----------------------------------|----------|
| 1.      | Impact of pandemic on Auto Industry   | Arvind Malviya<br>(TYAE student) | 4        |
| 2       | Ethics and Automobile Industry        | Ansh Kore<br>(TYAE student)      | 6        |
| 3       | SWOT Analysis of Indian Auto Industry | Mr. V.C. Prabhu<br>(Lecturer)    | 7        |
| 4       | Activities of Department              | _____                            | 8        |



ABHIYAAN

IS TITLE OF  
OUR NEWSLET-  
TER OF  
AUTOMOBILE  
ENGINEERING  
DEPARTMENT.  
SEND YOUR  
ARTICLES AND  
PHOTOS FOR  
ABHIYAAN

COVER STORY

- **Impact of Pandemic on Auto Industry**
- **Ethics and automobile industry**
- **SWOT Analysis of Indian Auto Industry**



## Impact of pandemic on Auto Industry

The COVID-19 epidemic has pushed the global economy and humanity into a disaster. In the attempt to control this pandemic, the governments of all the countries have imposed a nationwide lockdown. Although the lockdown may have assisted in limiting the spread of the disease, it has brutally affected the country, unsettling complete value-chains of most important industries. The epidemic is having a foremost impact on all features of industries which includes the automobile sector, with key manufactures either completely close following the orders passed by local governments or running an organization with least staff at manufacture units to remain their personnel secure.

Over the last 12–18 months, the automobile field had already undergone significant delay due to structural modification openings with the goods and services tax, axle-load reforms, shift to shared mobility, liquidity crunch, and so on industries had faced major effect and has roughly been at a complete idle since COVID-19's lockdown. Extended truncation of customer demand due to the lockdown is observed drastically distressing auto manufacturers. The majority of the companies are starving the support of R&D (Research and development) to maintain core functions and potentially getting back the growth made on mobility technologies as well as alternate fuels. COVID-19 pandemic has created a significant effect on the stock exchange of the automobile industry. The pandemic has generated an adverse effect on the purchase of the automobiles. The factors such as household income, travel vulnerabilities and epidemic severity in local regions have influenced the purchase decision making process of individuals. Further, study is used to assist the policy makers in implementing significant measures to overcome the present crisis in the automobile purchase.



ABHIYAAN  
अभियान

ABHIYAAN

IS TITLE OF OUR  
NEWSLETTER OF

AUTOMOBILE

ENGINEERING

DEPARTMENT.

SEND YOUR

ARTICLES AND

PHOTOS FOR

ABHIYAAN

## Effect on various agencies



### Inside Story Headline

1. Auto dealers: Auto dealers have faced major problems. There are presently 15,000 above auto dealers which include two, three, and four wheelers across India. They were not able to transport vehicles for the lockdown period. Auto dealers have informed 30–45 days of completed goods record, likely to be greatly low-priced prior to post lockdown. In the next 6 months, it is predictable that there will be finishing off at least 8%–10% of these dealerships.

2. Auto suppliers: Auto suppliers have a high reliance on immigrant labor, whose absence is anticipated to additional delay restoration post lockdown, ensuing in a domino consequence on the complete assessment chain. Suppliers are facing the challenges of liquidity that may yield to fading market circumstances, causing extensive trouble across the whole manufacturing network.

3. Finance companies: These financial companies are likely to face the burden, since loan evasions are expected to increase, and new loans are likely to fall, given complexities in deciding customers' credit value. The impact of the COVID-19 is expected to put tension on used-cars, mobility solutions, and aftermarket service suppliers, whose financial support relays on violent growth projections.

4. Sales: COVID-19 affected automobile new vehicle sales very badly especially in the month of February 2020. Like, in China new sales of vehicles have fallen by 92% in February. Also, in European countries total vehicle sales were dropped by 7.4% when compared to that of sales in last year. Also, in country like India, many automobile industries such as TVS, Mahindra have stopped their production sales due to lockdown and

likewise many sectors have been affected.

5. Issues of the automotive sector due to COVID-19

The automotive sector is on the front line due to the interrupt caused by the epidemic to trade as usual and throws the financial position into indecision. A few major affected areas are home and key manufacturing hubs to foremost links in the total supply chain sectors. Distinctive emergency plans helped allowing functional effectiveness by following measures like power outages, cyber incidents, and natural disasters, and so on. The situation is mobbing fastly due to the widespread effects. The key areas of these issues include crisis handling and response, workforce, supply chain, finance and liquidity, tax and trade, and strategy.

(An article by Arvind Malviya TYAE student)

ABHIYAAN  
अभियान

## ABHIYAAN

IS TITLE OF OUR  
NEWSLETTER OF

AUTOMOBILE  
ENGINEERING  
DEPARTMENT.

SEND YOUR  
ARTICLES AND  
PHOTOS FOR  
ABHIYAAN

# Ethics and Automobile Industry



Behaving ethically in the automotive industry is a complex issue that goes beyond just being a hard worker, doing a good job, and being polite to customers.

It involves being honest with the customer, owning up to mistakes, and fixing them on your own expenses, not the customer's. It also means avoiding unethical practices such as overcharging an ignorant innocent customer, damaging a vehicle or tool without owning up to the mistake, or taking something that nobody will notice.

In addition, the automotive industry needs to follow the code of conduct that includes business type approval, registration, insurance, development, manufacture and supply, distribution, mergers, acquisitions, and joint ventures, incentives, and barriers to entry.

Sustainability is another important aspect of the automotive industry. As natural resources become more and more scarce, sustainable value chains are becoming more and more important. They are based on the principle of re-using and recycling resources.

Creating transparency along the supply chain is critical .

Finally, ethical decision-making in autonomous vehicles is a topic of increasing importance. A strategy for AV decision-making is proposed, the Ethical Valence Theory, which paints AV decision-making as a type of claim mitigation: different road users hold different moral claims on the vehicle's behavior, and the vehicle must mitigate these claims as it makes decisions about its environment

An article by Ansh Kore

TYAE student)

# SWOT Analysis of Indian Auto Industry

ABHIYAAN  
अभियान

## ABHIYAAN

IS TITLE OF OUR  
NEWSLETTER OF

AUTOMOBILE  
ENGINEERING  
DEPARTMENT.

SEND YOUR  
ARTICLES AND  
PHOTOS FOR  
ABHIYAAN

## SWOT ANALYSIS



### Strengths

- The domestic market is substantial.
- The government gives financial aid to manufacturing companies.
- Labor cost savings
- Continuous product innovation and technological advancement in an ever-changing industry
- Asian markets are seeing increased growth.
- Demand for luxury commercial vehicles is increasing.
- Cost-cutting manufacturing facilities in Asian countries
- 

### Weaknesses

- Setbacks in infrastructure
- Productivity is low.
- The cost of production rises when the government imposes too many taxes.
- In research and development, there is a lack of investment.

### Opportunities

- Excise duty reduction
- Rural demand is increasing.
- The level of income is steadily rising.
- Vehicles that use less gasoline will be introduced.
- Changing lifestyles and customer demand are driving an increase in the sales of two-wheelers and tiny cars.

### Threats

- Interest rates are rising.
- There is too much competition.
- Raw material prices are growing.
- Fuel prices are steadily rising.
- The economy is slowing.
- Recession in the economy
- Fixed costs and investments are high.

(Compilation of Information by  
Mr. V. C. Prabhu Lecturer)



## ABHIYAAN

IS TITLE OF OUR  
NEWSLETTER OF

AUTOMOBILE  
ENGINEERING  
DEPARTMENT.

SEND YOUR  
ARTICLES AND  
PHOTOS FOR  
ABHIYAAN

## Activities of Department

### Expert Talks List

| YEAR    | ACTIVITY  | Month and year |
|---------|---|----------------|
| 2021-22 | Expert Talk On Engineer for skill development of employment in combating COVID 19 | 15/09/2021     |
|         | Expert Talk On Renewable Energy Solution in EV charging                           | 8/8/2021       |

### Extra Curricular Activities

| YEAR    | ACTIVITY  | Month and year |
|---------|---|----------------|
| 2021-22 | Teachers' Day : Felicitation of teachers and speeches by students and staff | 05/09/2021     |
|         | Engineers' Day: Expert talk and speeches by students and staff              | 15/09/2021     |