



BIRLA VISHWAKARMA MAHAVIDYALAYA, V V NAGAR

(An Autonomous Institution)

MECHANICAL ENGINEERING DEPARTMENT

Report on Technical Exhibition Visit to Auto-Expo 2018, organized during 07-15 February, 2018 at New Delhi



Objective: To get aware about the latest trends going in the automobile market, to enrich knowledge about the latest automobile parts, to observe the modifications in the materials as well as design criteria.

An Auto-Expo 2018 technical exhibition visit organized by Mechanical Engineering department for 72 students (52 GIA + 20 SFI) of mechanical and production engineering at New Delhi during 8-15 February 2018. With the ever showering blessing from Charutar Vidya Mandal, continuous guidance from Dr. Indrajit Patel, Principal, and Dr. P. M. George, Head, Mech. Engg. Dept., the visit was grand success. For better functioning, four faculty members from Mech. Engg. Dept. (Prof. B. S. Patel, Dr. H. P. Patolia, Prof. M. I. Kathadi, Prof. U. B. Chudhari) with one supporting staff (Shri S. M. Parmar) had accompanied the students.

The first ever Indian Auto-Expo took place in the year 1986 and was more of a window for technical knowledge transfer as it exhibited how the automakers were absorbing newer technology and promoting home-grown research and development to adapt technology that suited the rugged Indian conditions. This first expo was held at the Pragati Maidan, New Delhi by The Association of Indian Automobile Manufacturers (what is known as SIAM today), and the Auto Component Manufacturers Association of India (ACMA).

Auto-Expo 2018 was organized during 9-14 February, 2018 at India Expo Mart, Greater Noida, whereas the Component Show, during 8-11 February, 2018 at Pragati Maidan, New Delhi. Auto-Expo witnessed over 500 product displays from 119 exhibitors. This included 53 Original Vehicle Manufacturers showcasing over 100 products, including 22 launches, 81 product unveilings and 18 concept showcase. There were 14 new brand launches that included Kia Motors India, India

Kawasaki Motors and Cleveland CycleWerks. There were 25 Electric Vehicles showcased in this edition of the Auto-Expo. A total of 11 start-ups marked presence in India through this edition of Auto-Expo 2018. The Auto Expo has conventionally been one of the most pursued platforms for the automobile industry in India and with the continued success of the show, it has gained a global thrust giving the participating brands a worldwide exposure. Auto Expo – The Motor Show 2018 is aimed at celebrating the industry's biggest automotive event offering an opportunity to the Industry and visitors to Co-Create, Co-Exist and Celebrate.

The preparation for above visit was started before a couple of months for railway reservation, lodging, boarding, registration for entry to the exhibition and local transport. Auto-Expo held in India finds its place among the top 7 Motor Shows globally. The motor show witnesses most of the players of the automotive industry from about 30 nations including Germany, Italy, Japan, Korea, South Africa, Singapore, China, Sweden, Taiwan, United Kingdom, United States of America, etc.

Nearly 50 electric and hybrid vehicles had been displayed at Auto-Expo 2018. Most of these vehicles were working models that are two or three years away from making their way on to the road, unlike in other auto shows where electric vehicles are seen largely in concept forms. These products will also be relevant to India, with a majority of them positioned in the affordable segment. While they were skeptic initially, the automobile industry has now taken seriously the government's direction on electric-mobility, that a majority of new vehicles on the roads should be electric-powered by 2030 to reduce vehicular pollution and cut the bill on crude oil imports. Home-grown Mahindra & Mahindra and Tata Motors showcased half a dozen electric vehicles each at the expo. Toyota Kirloskar Motors displayed a pure electric vehicle, two hybrids and a plug-in-hybrid, while Kia brought a pure electric vehicle and two plug-in-hybrid vehicles. French Carmaker Renault had its Zoe e-Sport on display, BMW had i8 and i3s while Mercedes-Benz, the concept EQ.

Every two-wheeler manufacturer had a big launch or unveil this year. Yamaha launched the much-awaited R15 V3.0 along with the updated R3. Honda introduced the 160cc X-Blade alongside the Activa 5G. There were a bunch of new 125cc scooters. Suzuki debuted the Burgman Street, as Hero came out with 125cc versions of the Duet and Maestro Edge. The Piaggio Group was out in full force, launching the Aprilia SR 125 and debuting the new Storm scooter, to go with the hot new RS and Tuono 150s. BMW Motorrad announced the launch of the new F 750 GS and F 850 GS, while announcing plans to bring the G 310 R and G 310 GS to India this year. Also on display were the Hero XPulse 200, Suzuki GSX-S750, Kawasaki Ninja H2 SX, UM Renegade Duty and Thor. These aside, there was also the Emflux One electric sport bike.

Along with the display, the Auto-Expo 2018 included VR and AR experiences, a gaming center, a vintage car collection, book stalls, an art and craft activity, and much more. It had engines ready for the Bharat Stage VI, displayed by several manufacturers. It also displayed EV car modules, a cut-section for presenting the working of a multi-cylinder engine, motorboat engine, tires, filters, and various other accessories. For the entertainment purpose, some companies had organized VR games, stunt shows and fun activities. There were three adventure live stunt show form Honda, J K Tyre and Yamaha which are attraction for the Auto-Expo.

Students have also visited historical monuments of Delhi like Lal Killa, Rajghat, Kutub Minar, Birla House, Lotus Temple, India Gate, Indira Gandhi Museum, Rastrapati Bhavan, Mughal Garden, Humau Tomb, Purana Killa etc. One day visit was arranged to a holistic place Shree

Krishna Janma Bhumi, Mathura, one of the seven wonder of the world Taj Mahal, Agra and Red Fort of Agra.

The visit was very interesting and amazing. The lodging and boarding is divided at two places, Shree Gujarati Samaj and Maninagar Shree Swminarayan Gadi Sansthan, Civil Lines, New Delhi.





