



**SIES Graduate School of Technology**  
Sri Chandrasekarendra Saraswati Vidyapuram  
Sector 5, Nerul, Navimumbai-400706

**Department of Mechanical Engineering**  
**Event Report**

**Automobile Workshop For SH Jondhale Polytechnic, Dombivili and  
Presentation High School, Seawoods**

(22/09/2019 and 29/09/2019)

**Event Information**

**Event Type:** Interaction

**Event title:** Automobile Workshop for SH Jondhale Polytechnic, Dombivili and Presentation High School, Seawoods

**Event date:** 22/09/2019 and 29/09/2019

**Organized for:** All students (All Branches)

**Organized by:** Mechanical Department (SAE Council)

**Target audience (branch & nos.):** All Students

**Attachments:** 1. Photographs (in JPEG/PNG)  
2. Attendance report

## Event Description

An automobile workshop was held at our college. This workshop was held for the students on 22/09/2019 and 29/09/2019. This workshop gave students a brief idea about working of an automobile vehicle, operation of machines like lathe machine, angle grinder, bench grinder, etc. and also about the use of CAD softwares. It was conducted in our college's workshop and was held for two days.

### **Day 1(22/09/2019) :**

The workshop was started with the illustration of chassis department. Here, the students were explained about the importance of chassis, its types, etc. after this, they were given the explanation about the wheel assembly department, where they were explained about traction force, tire nomenclature, etc. They were given a lunch break of one hour. After that, session of drivetrain department was conducted. they were taught about the functioning of engine, CVT, gearbox and applications of zeppa. After this part, session of suspension department was organized, wherein they were taught about the double wishbone suspension, leafspring suspension and their significance. They were given a refreshment break wherein they were provided with a soft drink and fast food. At the end, a fun activity was carried out, wherein students were guided to make a PVC model of our chassis.

### **Day 2( 29/09/2019) :**

This day started with the session of steering department, in which they were given a brief idea about various steering mechanisms like Ackermann geometry, pro-Ackermann, etc. After this part, brakes department conducted a session, in which they covered topics like how brakes works, its necessity, its types, and various principles governing it. they were given a lunch break of one hour. Eventually they were taken to the machine shop of our college, where they were taught about the working of the lathe machine, various operations performed on it and its industrial appliances. Thereafter they were explained about the various CAD softwares like solid works, Ansys, etc, which our team uses in making the design of our vehicle. After this, they were introduced to different fabrication like cutting, grinding, profiling, polishing and welding. At the end of the day, fun activity was organized where assembly and disassembly of vehicle was carried by students under the guidance of the seniors and thereafter refreshments were provided.

# 1. Photographs (in JPEG/PNG)





**2. Attendance list:**

JONDHALE HIGH SCHOOL, DONDIVLI		
SERIAL NO.	NAME OF PARTICIPANT	SIGNATURE
1.	Ameya Khopekar	<i>[Signature]</i>
2.	Pranay Ingale	<i>[Signature]</i>
3.	Aditya Bhagat	<i>[Signature]</i>
4.	JONATHAN WAGNER	<i>[Signature]</i>

  

PRESENTATION HIGH SCHOOL, BEAWOODS		
SERIAL NO.	NAME OF PARTICIPANT	SIGNATURE
1.	TANYA HORWADKAR	<i>[Signature]</i>
2.	Mohammed Aslami	<i>[Signature]</i>
3.	Anurag Chavrasia	<i>[Signature]</i>