



**Department/ School Name:** Department of Mechanical Engineering / SOET.

**Academic Year:** 2019-20

**Report on:** Expert talk: 'Opportunities in R & D and simulation Processes'.

**1. Event Title:** 'Opportunities in R & D and simulation Processes'.

**2. Event Date:** 20<sup>th</sup> Jan 2020

**3. Event Conduction Duration:** 10.30 am To 12.15 pm

**4. Event Venue:** Seminar Hall, Y Building , SOET, SUN

**5. Name of Event Coordinator with contact details:**

Mr. B. M. Dusane (+91 77700 59739)

Mr. A. S. Thorat (+91 99601 34019)

**6. Event Outline & Outcome of the event:**

**Outline of Program:** School of Engineering & Technology (Mechanical Engineering Department) had organized an expert talk on 'Opportunities in R & D and simulation Processes' for Third year and Final Year students to have awareness.

**Mr. Mahesh Hadpe (Director of HM Technologies) shared his thoughts to all third year as well as final year students related to career in 'Opportunities in R & D and simulation Processes'. He delivered ideas 'When Software Saves Lives' through simulations in car crash test.**

Software can simulate the real world. But it can't replace the real world. So car design engineers combine information from virtual crashes *and* from actual crashes. Simulations let engineers explore varied options early in the design process. But final, definitive tests, the basis for safety ratings, require smashing real cars.

Creating an actual car crash is easy (unfortunately). But how do you create a simulation?

Once designers have outlined a car's basic form, they use the finite element method (FEM) to model its shape by plotting many interconnected points on the car's surface. Software then calculates how the forces in a crash would affect each of those points to determine the overall result of the impact.

## Objective of Program:

He delivered following things in his master way:

- Career opportunities in Mechanical softwares.
- How to prepare interview for R & D Department?
- Importance of Simulation softwares and its applications.



Final Year Student- MilindZaveridid welcome of Mr. Mahesh Hadpe , Director, HM Technologies ,Pune.



Mr. Mahesh Hadpe shared his views and experience of R&D to the students.



Ashish Gaikwad – Final year student won the prize by giving answer of question which was asked by expert Mr. Mahesh Hadpe.



ShubhamPakhale won the Second Prize by giving solution asked by Expert Mr. Mahesh Hadpe.