



GUJARAT TECHNOLOGICAL UNIVERSITY

Report : Webinar on CAE Methods in Automotive

Date: 18th July 2020

Time: 5:30 PM to 7:15 PM

Expert Name: Mr. Akshay Vaishnav,

Mr. Nisharg Shah

Automotive Engineer, Germany

Registration Link: <http://bit.ly/DIC-CAE>

No. of Registration: 716 No. of Participants: 257

Application of computer aided engineering (CAE) techniques is a key element of contemporary vehicle development processes. Upfront CAE simulations of vehicle noise and vibration performance are required to select designs that meet vehicle attribute targets. CAE is a key enabler to meet program timing and program cost by design selection right the first time before hardware and prototypes are available. In this Webinar Mr. Akshay Vaishnav and Mr. Nisarg Shah Discussed about Various Methods of CAE in Automotive and talk about Car crash analysis with the simulation data study done by Mr. Nisarg Shah at Audi, Germany.

Presents Webinar on

CAE Methods in Automotive

Speaker

MR. AKSHAY VAISHNAV
Automotive Production Engineer,
Master from TH Ingolstadt,
Continental (Master Thesis),
Germany.

MR. NISARG SHAH
CAE Design Engineer,
CADS Engineering, GmbH, Ingolstadt,
Technische Entwicklung im Maschinenbau,
Master from TH Ingolstadt,
PSW automotive Engineering GmbH
(Master Thesis), Germany.

Join us,
18th July 2020
Saturday, 5:30 PM India

Register: <https://bit.ly/DIC-CAE>

- If any query Contact Mr. Harshil Patel.
- E-mail : dic_harshil@gtu.edu.in

CAE Methods in Automotive

Online Webinar
18.07.2020

Akshay Vaishnav
M.Eng. in Automotive Production
Engineering (TH Ingolstadt)

Material

Der neue Audi A8 L

Euro NCAP- Frontal Impact

Total Energy
 $E_{Total} = E_{kin} + E_{int} + E_{ext} = const.$
 $m = 1465 \text{ kg}$
 $v = 35 \text{ mph} = 15.65 \frac{\text{m}}{\text{s}}$
 $E_{Total} = E_{kin} = \frac{1}{2} m v^2 = \frac{1}{2} \cdot 1465 \text{ kg} \cdot (15.65 \frac{\text{m}}{\text{s}})^2 = 142867 \text{ J}$