



PCET'S and NMVPM'S

Nutan Maharashtra Institute of Engineering and Technology

Department of Mechanical Engineering

SAE INDIA COLLEGIATE CLUB OF NMIET

(Saeindiaclub@nmiet.edu.in)



Date: 05/02/2021

To,
Shailesh Patil,
Project Manager, Tata Motors,
Hinjawadi.

Subject: Confirmation of guest lecture through web Ex platform on 6Feb. 2021

Dear Sir,

On behalf of SAE India Collegiate Club of NMIET, I am very pleased to have the honor of inviting you to deliver lecture under SAE India Chapters. We would like you to speak on "Virtual Product Development using CAE Tools and Opportunities in Automotive Industries". To have you as our guest lecture speaker would be honor to the people who will be there and the whole SAE India Collegiate Club Team NMIET


We have arranged the lecture on February 6, 2021 at 3:00 p.m. We are expecting an audience of approximately 50 students and faculty from Mechanical Engineering Department. We will provide online platform link for guest lecture, February 06. Please let us know if you required anything for guest lecture.

Best Wishes.

Thanking You,

Raturaj Mahajan

Student Chairperson – SAE India Collegiate club of NMIET.


Principal
Nutan Maharashtra Institute of Engineering and Technology
Talegaon Dabhade
Talegaon Dabhade, 412207





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Department of Mechanical Engineering

SAE INDIA COLLEGIATE CLUB OF NMIET

EVENT REPORT

Event Name :- Virtual Product development Using CAE Tools & Opportunities in Automotive Industries

Event Speaker :- Mr. Shailesh Patil (Works at TATA Technologies)

Event Date & Time :- 6th February , 2021 at 3.00 pm

Platform :- Virtual (WebEx Meeting)

Organizer :- SAE India Team Nutan Maharashtra Institute of Engineering and Technology

“Virtual Product Development & Job Opportunities in Automotive Industries” was the first event organized by SAE India Collegiate Club of NMIET which took place Virtually on 6th February, 2021 at 3.00pm . Due to the moral support of Faculty coordinator as well as student coordinator, this astonishing program held properly . Our Chief Guest and Today’s Webinar Speaker ‘Mr. Shailesh Patil’ from Tata Technologies and currently working as a Project Manager in Tata Motors Private Limited . The program started by Introduction given by student volunteer Mr. Sohankumar . Dr.Pranav Charkha Sir , HOD of Mechanical Department gave some visions and missions of SAE NMIET Club .

Today’s Honourable speaker Mr. Shailesh Patil Sir begins with endorsing parts of automotive industries .Sir has studied Master’s in Design Engineering .First he was a Professor in engineering college and now he is Project Manager CAE Durability . Journey from professor to manager just sounds flicky . Sir has expertise in ANSYS , Altair Hyper works , MSC Nastran , MSC Fatigue & FEMFMAT Software. Sir has 14+ years of experience in this diverse field , so it was a memorable thorum to get some idea regarding Engineering Analysis as well as Finite Element Analysis . The meaning of VPD (Virtual Product Development) was desirably explained with some theoretical base knowledge . CAE is the broad usage of computer software to add in engineering analysis tasks . It mainly includes Finite Element Analysis (FEA) , Computational Fluid Dynamics (CFD) , Multibody Dynamics (MBD) , and optimization.

Session Covers Following Points :

- Automotive industries in India
- Vehicle terminology
- Vehicle Standards (AIS)

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- New Product Development Process
- Challenges in Vehicle Design
- Vehicle Testing & Certification
- Vehicle safety (Crash) , Vehicle Perception (NVH) & Vehicle Life (Durability)
- Virtual Product Design & Testing (CAD & CAE)
- Various CAE Tools used in Product Development
- Job Opportunities


Our College Students to Faculties were attending this beautiful session . Students get to know various parts of Automobile Industries and how the vehicle is design and manufactured by taking some different analysis . The automotive design includes various parts like how the vehicle's body design , power train , transmission , Suspension , Controls , Electrical Electronics .How there is Increase in vehicle model variants over time ?All get to know various Automotive Challenges Faced by Industries . The marked words Spoken by Speaker are **“Upgradation is necessary to sustain in Today’s future.”**

How the analysis done while manufacturing vehicle and various benefits of CAE in automotive industry such as to reduce product development cost and time , improving safety , comfort & durability of vehicles. Various CAE Software are Abaqus , Adina ,Promon ,HFSS ,Remap , and so on . What is FEA (Finite element analysis)and its various steps? What is MBD ? Adamas is most widely used multibody dynamics and motion analysis software in the world . We all also get to know the supporting geometry formats in automotive industries are CATIA V4/V5 , PRO-ENGINEER , ACIS , Trigon Solid works . At last , the basic information on Crash Analysis was also Focus by Sir and its Components of Safety . Why the crash Analysis take place on vehicle and its measure concerns ?

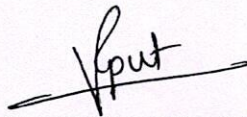
All students who were present in session where given chance to ask questions. This was the best part were interaction meets keen learner. At last , vote of thanks was done .

So , it was such a pleasure moment for all of us to get interact with such humble person who gave valuable time to Students of Mechanical Engineering .

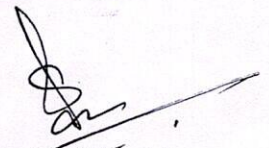
Remark:-



Prof. Spandan Waghmare
Faculty Coordinator



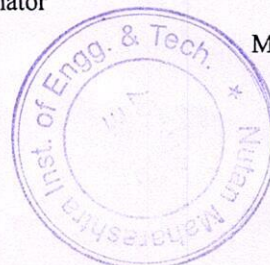
Prof. Vishal Singh Rajput
Faculty Coordinator





Dr. Pranav Charkha
HOD

Mechanical Engg. Department

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	Under Administrative Support of Pimpri Chinchwad Education Trust		Date: 15.06.2016

Department of Mechanical Engineering

Virtual Product Development using CAE Tools and Opportunities in automotive Industries

Date: 6/08/2019

Roll List

AY 2020-21

Sr.No.	Name of Student	Sign
1	Parbhane Tejas Sanjay	P
2	Paritkar Suprap Suhas	P
3	Patil Sohankumar Pankaj	P
4	Shendge Amey Maruti	P
5	Tilekar Prathmesh Satish	P
6	Zadke Rohit Tukaram	P
7	Pokharkar Ashutosh Shivaji	P
8	Sherkar Pradnesh Laxman	P
9	Salunkhe Mihir Chandrakant	P
10	Sanket Vikas Janrao	P
11	Suhas Uday Bodake	P
12	Shubham Machindra Shinde	P
13	Yash Vasant Pawar	P
14	Krushna Gautam Garud	P
15	Snehal Balkrishna Gore	P
16	Viren Amarshi Rathod	P
17	Ruturaj Sudhir Mahajan	P
18	Mayur Sunil Mahajan	P
19	Vaibhav Keshorao Mahule	P
20	Shubham Ramkisan Mandavgane	P
21	Suyash Ashok Mandlik	P
22	Aniket Jayram Mandlik	P
23	Anikesh Vijaysinh Mane	P
24	Himanshu Hariram Mankar	P
25	Sumit Sunil Mohite	P
26	Swapnil Nathuram More	P
27	Bhaskar Ramesh More	P
28	Omkar Dnyaneshwar Mule	P
29	Viresh Mangesh Naik	P
30	Ankit Manoj Naphade	P
31	Prajwal Atul Narkhede	P
32	Tushar Harishchandra Ovhal	P
33	Akshay Dattatray Paradhe	P
34	Maheshwari Satish Pardeshi	P
35	Yash Mansukh Parmar	P
36	Salman Samiullah Patel	P
37	Sanjay Babu Patil	P
38	Patil Pradnyesh Mahendra	P
39	Amol Ravalnath Patil	P
40	Manoj Prakash Pawar	P
41	Aditya Sudhir Pawar	P
42	Chaitanya Sunil Pawar	P
43	Jay Deepak Prajapati	P
44	Akash Atul Prasad	P
45	Raut Nupur Dnyaneshwar	P
46	Saurabh Shankar Raut	P
47	Pratik Santosh Relekar	P
48	Vinay Vasant Revale	P
49	Pratik Pradeep Sadigale	P
50	Hrushikesh Rajendra Sathe	P

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51	Shubham Diwakar Sawankar	P
52	Sanket Dattatray Sawant	P
53	Aman Anwarali Shaikh	P
54	Amol Dilip Shelar	P
55	Sahil Sandeep Shelke	P
56	Swapnil Anil Shinde	P
57	Mayur Kishor Shukla	P
58	Irfan Maksud Sikiikar	P
59	Ganesh Dnyaneshwar Sinalkar	P
60	Sinha Aniket Ashok	P
61	Bhavesgh Ghisulal Sirvi	P
62	Ritik Vilas Sonar	P
63	Aditya Shekhar Sonavani	P
64	Prabhjyotsingh B. Suri	P
65	Abhiraj Sunil Surwase	P
66	Priyanka Vilas Sutar	P
67	Vaibhav Kadu Talele	P
68	Thakur Prasad Sanjay	P
69	Shubham Sunil Thosar	P
70	Nikhil Vishnu Tupere	P
71	Sahil Eknath Vekhande	P
72	Omkar Balkrishna Walke	P
73	Ganesh Popat Waman	P
74	Omlesh Rajendraprasad Yadav	P
75	Harivansh Ramawadh Yadav	P
76	Akash Tanaji Yadav	P
77	Mayur Rambhau Kakde	P
78	Sagar Balu Kadam	P
79	Rohan Sukhadeep Wadia	P
80	Bhushan Siddharth Wagh	P
81	Amar Lalasaheb Pund	P
82	Mandar Dnyaneshwar Pingle	P
83	Shubham Ramesh Javheri	P
84	Ahinave Prathamesh Satish	P
85	Argade Avinash Dnyaneshwar	P
86	Attar Argin Aslam	P
87	Awate Prithviraj Sanjay	P
88	Barbole Pratik Ashok	P
89	Barwekar Somnath Kaluram	P
90	Bhandari Saurabh Santosh	P
91	Bhase Manvendra Sanjay	P
92	Bhokare Nikhil Anil	P
93	Bhosale Sandesh Mahadev	P
94	Borse Anurag Parag	P
95	Chaudhari Mayur Fakkadrao	P
96	Chaudhari Shubham Hemant	P
97	Chaudhari Chandan Mukunda	P
98	Chaudhari Raj Nitin	P
99	Chaudhari Nikhil Sanjay	P

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Sr.No.	Name of Student	Sign
100	Chavan Rushikesh Bhaskar	P
101	Chavan Pankaj Pandurang	P
102	Chinchkar Shreyash Pramod	P
103	Dagade Ajay Dhondiba	P
104	Dasme Rushikesh Balkrishna	P
105	Deokar Vaibhav Nilkanth	P
106	Deshmukh Saheel Shakil Ahmad	P
107	Deshpande Aniket Nitin	P
108	Dhame Pratiksha Sharad	P
109	Dhore Yash Sunil	P
110	Doke Arnab Maruti	P
111	Dustakar Anirudha Ajay	P
112	Gaikwad Aniruddha Ravindra	P
113	Gaikwad Hrushikesh Vilas	P
114	Gangawane Aditya Jaykant	P
115	Gawade Abhishek Atul	P
116	Gawali Aniket Shyam	P
117	Gorde Pratik Raju	P
118	Gosavi Onkar Sudhakar	P
119	Gulhane Prajwal Prafull	P
120	Gunjal Rushikesh Balasaheb	P
121	Halole Nagesh Mallikarjun	P
122	Hinge Amar Anil	P
123	Hinge Shivankur Shankar	P
124	Jadhav Omkar Pandurang	P
125	Jadhav Kranti Ramrao	P
126	Jadhav Vishal Sadashiv	P
127	Jadhav Abhijeet Sudhir	P
128	Jadhav Sujit Tukaram	P
129	Jathar Rutvik Kisan	P
130	Kadam Akshay Rajendra	P
131	Kadam Swapnil Sukhadev	P
132	Kale Divya Ramesh	P
133	Kale Rushikesh Sanjay	P
134	Kamble Vijay Dadarao	P
135	Kamble Pratik Vivekanand	P
136	Kanhurkar Nitin Ashok	P
137	Karkare Sanket Santosh	P
138	Kasar Vrutik Sudhir	P
139	Khaire Omkar Tanaji	P
140	Kharade Mahesh Balu	P
141	Kulkarni Shubham Abhay	P
142	Kulkarni Vedant Yadnyesh	P
143	Kumar Dileep Deolal Prasad	P
144	Kumbhare Kunal Rajendra	P
145	Lad Suryakant Dnyaneshwar	P
146	Magar Pratik Sunil	P
147	Khollam Akshay Arun	P
148	Bendale Sumeet Vilas	P
149	Nahire Utkarsha Bhagwan	P
150	Waje Akshay Uttam	P

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