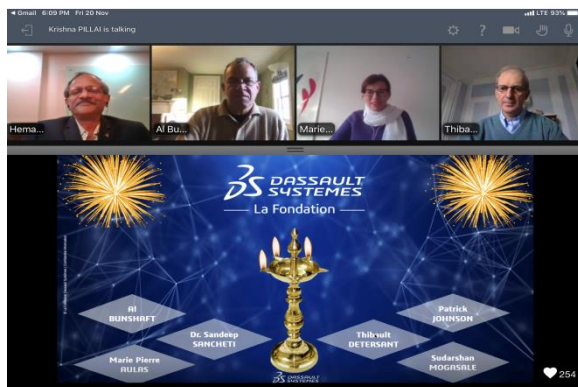


## FACULTY TRAINED BY INDUSTRY

La Fondation Dassault Systems has conducted webinar sessions by Industry experts to guide the students on identifying appropriate and meaningful projects to make them “Industry Ready”. Many faculties attended the same along with students.

Session	Information
1	Future of Engineering through Immersive Technology <b>APRIL 22, 2021</b> Mr. Yash DHAKE, Creative Designer, Dassault Systèmes   <a href="#">To Watch The session - Click Here</a>
2	Create Your Future Through Impactful Projects <b>APRIL 29, 2021</b> Mr. Hemant GADGIL, Executive Director, Dassault Systèmes Foundation, India   <a href="#">To Watch The session - Click Here</a>
3	Importance of IPR <b>MAY 6, 2021</b> Adv. Ganesh HINGMIRE, Advocate   <a href="#">To Watch The session - Click Here</a>
4	Solar Power Plants future of green and Safe Energy generation <b>MAY 13, 2021</b> Dr. Radhakrishnan, Managing Director, Ezon Energy Solutions   <a href="#">To Watch The session - Click Here</a>
5	Modular Building & Civil Infrastructure <b>MAY 20, 2021</b> Mr. Prasad Pandit, Industry Process Consultant Senior Manager, Dassault Systèmes   <a href="#">To Watch The session - Click Here</a>
6	Industrial Infrastructure For Future <b>MAY 27, 2021</b> Olivier Audelan, CATIA Infrastructure Industry Process Consult - Mgt Director, Dassault Systèmes   <a href="#">To Watch The session - Click Here</a>
7	Simulation Technologies enabling Predictive Flood Simulation and Disaster Mitigation <b>JUNE 3, 2021</b> Lyna ETIENNELE NORMAND & Shrikrishna Chittur, Dassault Systèmes   <a href="#">Discover Water Channel Simulation Technologies, To Watch The session - Click Here</a>
8	Solar Energy for Self-Reliant Village Eco System <b>JUNE 10, 2021</b>

	Dr. Shrinivas Metan, HOD Mechanical Engineering, N K Orchid College of Engineering   <a href="#">To Watch The session - Click Here</a>
9	Higher Education Avenues in Engineering in France <b>JUNE 17, 2021</b> Dr. Olivier Fudym, Attaché for Scientific and Academic Cooperation, Consulat Général de France   <a href="#">To Watch The session - Click Here</a>
10	Engineers in Military Aviation: Treading the Cutting Edge <b>JUNE 24, 2021</b> SqN Ldr Supriya Bhosale, Indian AirForce   <a href="#">To Watch The session - Click Here</a>
11	Application Of AI and Drones <b>JULY 1, 2021</b> Mr. Arjun Das, CTO, General Aeronautics   <a href="#">To Watch The session - Click Here</a>
12	Tailoring your Profile - An Employee's and an Entrepreneur's perspective <b>JULY 8, 2021</b> Ms. Shilpa Thakur, Co-founder- Incoen Systems Pvt Ltd   <a href="#">To Watch The session - Click Here</a>
13	Referential Industry Defined Projects executed by students <b>JULY 15, 2021</b> Students from Engineering colleges who executed Industry Defined Projects as part of ConnectNext Program
14	How to Launch a Successful Start-Up In Manufacturing Domain <b>JULY 22, 2021</b> Mr. Nandan Reddy, TrioVision Composite Technologies
15	Concluding Session <b>JULY 29, 2021</b> Dignitaries from Government Agencies, Industry and Academia   <a href="#">To Watch The session - Click Here</a>



Krishn...

**Srikrishna Srinivasa Chittur**

**Organization and Designation:** Dassault Systemes – SIMULIA Brand, Worldwide Industry Process Expert  
**Total experience:** 10 years in Engineering Simulations, Product Innovation and Strategy across Aerospace, Automotive, Industrial Equipment and High Tech Industries.

**Work Experience**

- 2020 Present → SIMULIA Worldwide Industry Process Expert, Bangalore – India.
- 2016-20 → Product Manager – Computational Fluid Dynamics (CFD), Dassault Systemes SIMULIA Corp, USA
- 2013-14 → Simulation Applications Lead – SOLIDWORKS Simulation Portfolio, Trimtech Solutions LLC, USA
- 2012-14 → Aerodynamics Engineer – Brayton Energy LLC, USA

**ACHIEVEMENTS**

- LIFE APPLICATIONS ENGINEER AWARD, SOLIDWORKS WORLD CONFERENCE – 2016, SOLIDWORKS Corporation
- 212 AWARD – 2016, Trimtech Solutions LLC
- AERONAUTICS ENGINEERING UNDERGRADUATE SERVICE AWARD – 2012, San Jose State University
- MEAC GRADUATE STUDENT OF THE YEAR AWARD – 2012, San Jose State University

**Education**

- Master of Science (M.S.): Aerospace Engineering, San Jose State University, USA – 2012
- Bachelor of Engineering (B.E.): Mechanical Engineering, BMS College of Engineering, Bangalore – India – 2010

### Fluid simulation solutions applied in Urban Planning

Sun

Air

Water

Citizens

Harmonizing product, nature and life

**DASSAULT**  
**SOLIDWORKS**

Oliver...

**Oliver AUDELAN**

**Organization and Designation:** WW Industry Process Director, Buildings & Infrastructure, Dassault Systemes  
**Total experience – 20 years**

**Work Experience**

- 10 years in the area of GEOTECHNICAL SYSTEMS INDUSTRY SERVICES (GSI)
- As part of and then leading Equipment & Systems team
- 8 years with DASSAULT SYSTEMES
- Leading WW GSI Buildings & Infrastructure team

**ACHIEVEMENTS**

- As part of DSI, involved on multiple technical roles, from CAE Expert on Fluid & 1D Modeler
- Supporting Pharmaceutical Manufacturers on transformation to Process Based Engineering
- Supporting 17' client on Nuclear Industry with ESE
- Supporting Energy customer on their transformation to Green Energy

**Education**

- Mechanical Engineer

4:57 PM Thu 22 Apr

Touch device is talking

### Traditional Mechanical Design Process (without VR)

1 DESIGN REQUIREMENTS

2 CONCEPTUALIZATION / CREATION

3 CONCEPT EVALUATION

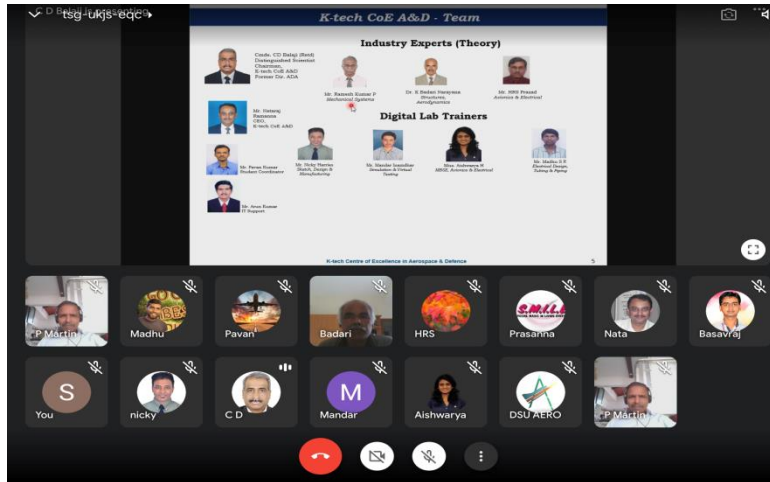
4 DETAILED DESIGN

5 FEA / SIMULATION

6 PROTOTYPING

7 DRAFTING

# Five days Training session on Aerospace Engineering attended by Dr.S.S.Metan along with Prof B.R Birjadar



### Internship / Foundation Course (One-Month)

You S

Progress in Aerospace Engg, Aerodynamics, Flight Mechanics, Aircraft Structures, Aircraft Materials, Aircraft Electrical Systems, Reliability & Certification, Avionics, Tools and Manufacturing, Aircraft Systems Engg, Maintainability & MRO, Theory 30 Hrs., Lab Exercises, Design and Manufacturing cycle of Aircraft Components, System Modelling and Simulation, Electrical Harness Design and Manufacturing, Lab 100 Hrs., Project 30 Hrs., CATIA, SIMULIA, DELMIA, K-tech Centre of Excellence in Aerospace & Defence

### Topics covered at K-tech CoE A&D

You S

- 1 **Structural Engineering** - Composites, Sheet Metal, Machined Parts
- 2 **Equipment Installation (Electrical & Fluidic)** - Wire Routing, 3D Cable Routing, Pipe lines
- 3 **Assembly/Manufacturing Process** - Assembly Validation, Ergo Simulation
- 4 **System Engineering** - Landing Gear, Avionics
- 5 **Multi Disciplinary Simulation & Optimization** - Linear, Non Linear, Fatigue, Thermal, MDO...
- 6 **Tooling Design** - Forming Tools, Stretch Tools, Jig/Fixtures

K-tech Centre of Excellence in Aerospace & Defence

## Dr.S.S.Metan attending session organised by French Embassy

### Context and challenges

DASSAULT SYSTEMES La Fondation

Globalization of society, internationalization of Higher Education and Research

Our planet faces global interdisciplinary Challenges – UN SDG

Online versus on campus teaching

Information Technology versus Knowledge and Skills  
...information is not knowledge...

**Education!**

More than 5 millions students in international mobility all over the world (2017)

Most key players countries have International co-publications rate > 40 %

Higher Education Avenues in Engineering in France June 17, 2021

PM Thu 17 Jun  
vier fudym is talking

### France Scientific and Academic Diplomacy

REPUBLIQUE FRANÇAISE  
MINISTÈRE DE L'EUROPE ET DES AFFAIRES ÉTRANGÈRES

DASSAULT SYSTEMES La Fondation

**A warm Welcome to Foreign Students coming to France!!**

**Bienvenue en France** is a certification which aims at being:

- **information tool** for international students about the real welcome conditions in our institutions,
- **evaluation tool** for international students listing initiatives taken by institutions in this industry
- **quality process** to improve greeting arrangements in institutions.

- **189** higher education institutions are engaged in a certification process
- **102** institutions are already certified

BIENVENUE EN FRANCE

Higher Education Avenues in Engineering in France June 17, 2021

**DASSAULT SYSTEMES**  
— La Fondation —

## RESEARCH LANDSCAPE IN FRANCE

**France spends 48 billion €/year on research**  
2.21% of GDP

**300,000 full time researchers in France:**  
40% in the public sector / 60% in the private sector

**42% of PhD students are internationals**

**4<sup>th</sup> highest index of impact in the world**  
Publication in the best-known international scientific journals

**#6<sup>th</sup> in the world in number of patent applications**

**France is involved in EU & international projects**  
European Synchrotron; Large Hadron Collider (CERN); Very Large Telescope; European Space Agency ESA; Ariane rockets CNES, Arianespace

**12 Fields Medals => #2**

**International distinctions**

**71 Nobel Prizes => #4**



E. Charpentier Chem, 2020



E. Duflo - Economics 2019



G. Mourou - Physics 2018




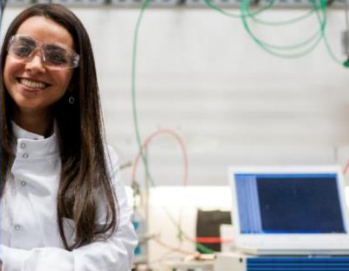
C. Villani 2010

Higher Education Avenues in Engineering in France June 17, 2021

**DASSAULT SYSTEMES**  
— La Fondation —

## PhD in France

**Are you interested in a PhD in France ?**

**PhD in France**

France offers a stimulating research environment to scholars and students, with a widely recognized scientific output.

The research system, **globally connected**, attracts both foreign students and foreign investors.

The **PhD Tour 2020** took place online from 21-25 September: a unique opportunity to **interact directly** with the best French institutions.

Students and researchers can also interact one to one with doctoral schools at the virtual **Choose France Tour** from 6-7 November.


Pre register for Choose France Tour

Prerequisite level : Master Degree


Higher Education Avenues in Engineering in France June 17, 2021

## Dr Shriniws S Metan and Mechanical Engineering Faculty members attended the Industry Expert session of the Dassault Systemes.


AAKRUTI2020




**Dr. Atul Padalkar**  
Director & Founder  
Flora Institute, Pune




**Mr. Manish Kumar**  
Vice President,  
SOLIDWORKS R&D,  
Dassault Systemes



**Mr. Satish Joshi**  
Assistant Vice President  
Nuclear and Defense Division,  
Godrej and Boyce



**Mr. Suchit Jain**  
Vice President –  
Strategy & Business  
Development,  
Dassault Systemes



**Mr. Thierry Chevrot**  
Director – Learning Experience  
& User Empowerment,  
Dassault Systemes

498

AAKRUTI2020



**Jayesh Pawar**  
Team Name: **ArkaYanam**  
N. K. Orchid College of Engineering and  
Technology, Solapur, Maharashtra

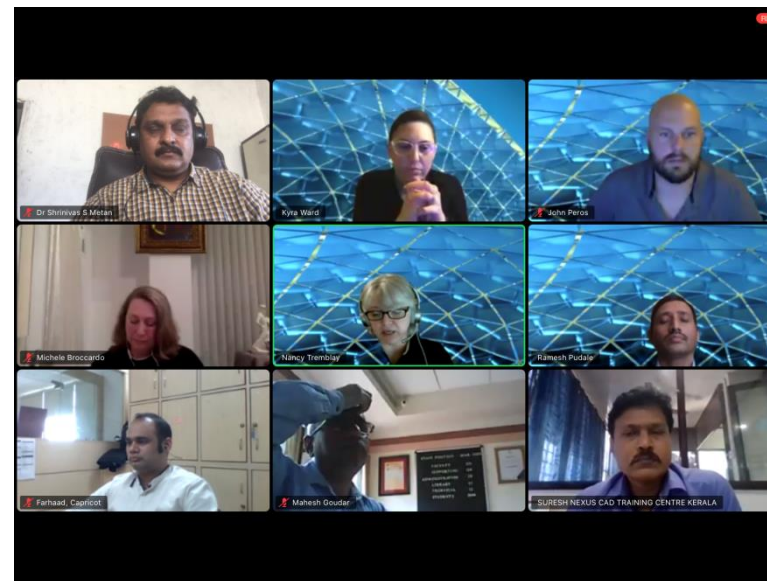
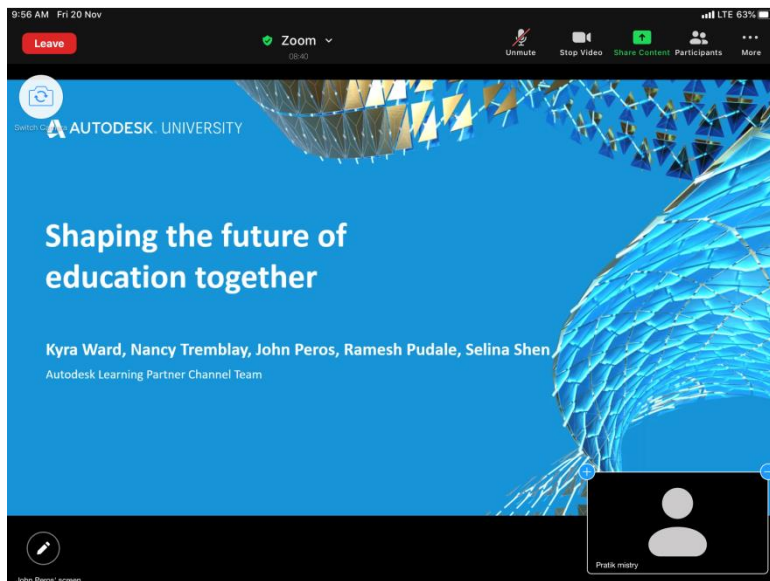


**Manish Mittha**  
Team Name: **ArkaYanam**  
N. K. Orchid College of Engineering and  
Technology, Solapur, Maharashtra

521





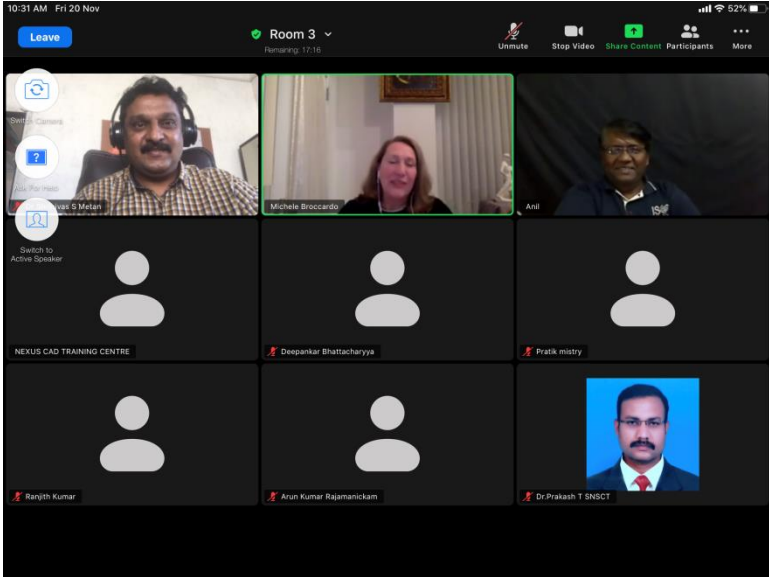
**Autodesk Training on Shaping the Future of Education Together: Dr Shrinivas S Metan and Prof A S Dhobale attended the international training.**



## Mechanical Engineer skills sets are evolving

Industry demands engineers that can rapidly design and manufacture smart products

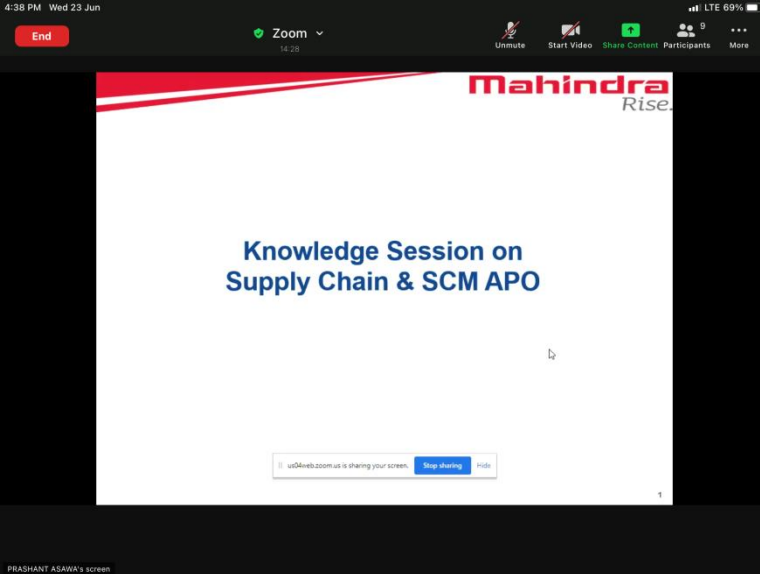
EDUCATIONAL CURRICULUM	INDUSTRY NEEDS
CAD Design / Drafting	Generative Design
Fluid Dynamics	Computer Aided Engineering
Statics	System Engineering
Materials	Embedded Electronics
Mechanics	Design for Manufacturing
Manufacturing	

Room 3

Participants: Anil, Michele Broccardo, Anil, NEXUS CAD TRAINING CENTRE, Deepankar Bhattacharyya, Pratik mistry, Ranjith Kumar, Arun Kumar Rajamanickam, Dr.Prakash T SNGCT

# Knowledge Session on Supply Chain Attended by Mechanical Engineering Faculties



4:38 PM Wed 23 Jun

Zoom

End

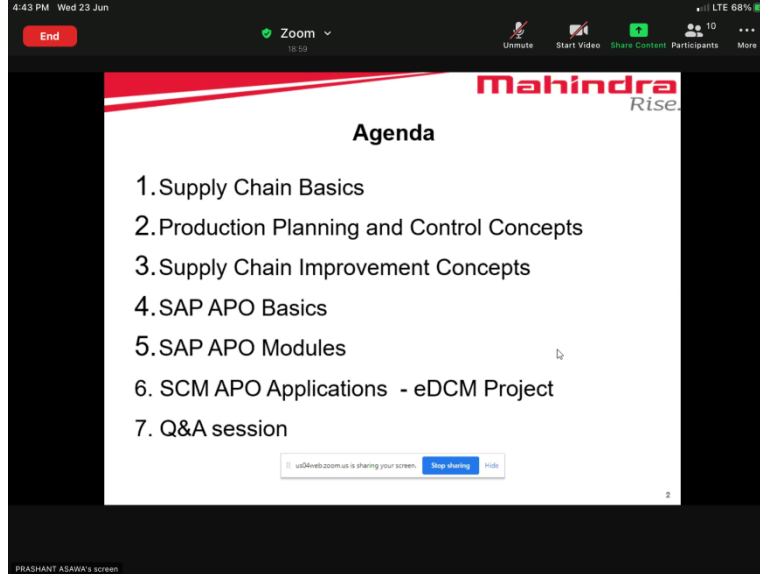
Unmute Start Video Share Content Participants More

**Mahindra Rise**

**Knowledge Session on Supply Chain & SCM APO**

1

PRASHANT ASARIA's screen



4:43 PM Wed 23 Jun

Zoom

End

Unmute Start Video Share Content Participants More

**Mahindra Rise**

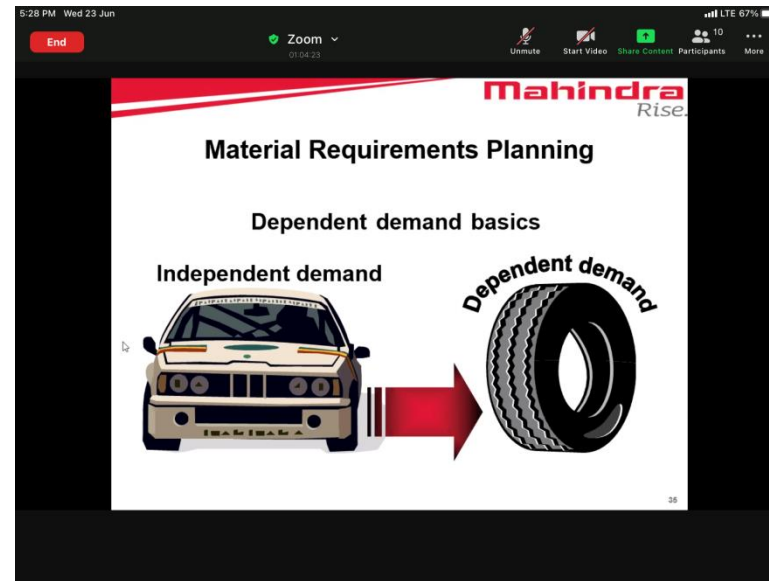
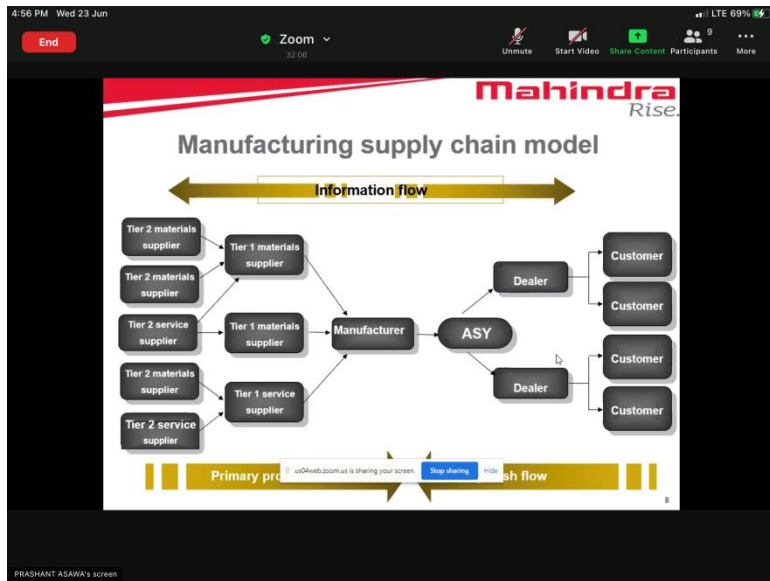
**Agenda**

1. Supply Chain Basics
2. Production Planning and Control Concepts
3. Supply Chain Improvement Concepts
4. SAP APO Basics
5. SAP APO Modules
6. SCM APO Applications - eDCM Project
7. Q&A session

2

PRASHANT ASARIA's screen





## Mechanical Engineering Faculty members attending session organised by MACCIA

**MACCIA 100**  
1997-2017

EMPOWERING INDUSTRY TO DEVELOP INNOVATIVE, AFFORDABLE, AND SUSTAINABLE PRODUCTS AND SOLUTIONS. SUPPORTING INDUSTRY TO SOLVE BUSINESS PROBLEMS BY ENGAGING TRAINED LOCAL YOUNG TALENT FORCE.

### Business Solution Polyclinic Program

TRANSFORMING JOBBEEKERS TO JOB CREATORS, AND ANSWER PROVIDERS TO SOLUTION PROVIDERS THROUGH INDUSTRY ENGAGED INTERNSHIP PROGRAM.

Logos: Inquad Funda, SPINOFF, SINGAPORE POLYTECHNIC | SP

### Faculty Development

Introduction to Invention Innovation & Commercialization

Describing Innovation

Protecting your work: IPR, trademarks, copyrights.

Technology commercialization

Entrepreneurs & Startup Life Cycle

Industry Readiness

**Participants (22)**

- Dr. Pratap Desai
- Kirti Dhenge
- Pranali Deshmukh
- Ramdas Bochare
- Sai Yadav
- Sanjeev Jamge
- Santosh Madki

Value Proposition

The diagram illustrates a value proposition process with the following stages:

- BONDING WITH INDUSTRY** (2 Months)
- INDUSTRY CONNECT INTERNSHIP** (2 Months)
- ENHANCING EMPLOYABILITY SKILLS** (6 Months)
- PROCESS AND POLICY ORDERS INCUBATION CENTRE** (6 Months)
- FACTORY CAPACITY BUILDING MENTOR CERTIFICATION** (6 Months)
- INDUSTRY READINESS INTERNSHIP** (6 Months)
- NURTURING ENTREPRENEURIAL MINDSET** (6 Months)

Logos for MACCIA and Jugaad Funda are visible at the top.

Achieving Graduate Attributes

Transforming Job seekers to Job creators..

Transforming Answer providers to Solution providers..

The circular diagram represents a continuous cycle of learning and skill development:

- Learn**: Gaining knowledge through theoretical, practical, and experiential learning.
- Apply**: Applying skills through projects, internships, and real-world challenges.
- Create**: Creating value through innovation, entrepreneurship, and social impact.
- Learn**: Re-learning and upskilling to stay relevant.

Logos for MACCIA and Jugaad Funda are visible at the bottom right.

## Mechanical Engineering Faculty members attending session flying out of turbulence conducted by SAE India

**Bold Decisions on Technology Options**

The slide discusses the challenges of technology options in aircraft design:

- Unstable Aerodynamics**: Time to Double as low as 200 ms.
- Composite Structure**: Includes Glass Composites, Aluminum, Kevlar Composite, and Carbon Composites.
- Failure to Apply latest technology carries a major risk**: A Technologically Inferior System can become prematurely obsolete.
- Digital Fly by Wire Flight Control System** vs **Digital Avionics and Glass Cockpit**.

SAEINDIA Society of Automotive Engineers INDIA logo is present. A video feed of Girish Deodhare is visible in the bottom right corner.

**LCA - Technology Gap of Four Decades - Overcome**

The slide illustrates the technology gap between different generations of Light Combat Aircraft (LCA):

- 1961 (2nd Generation)**: Fly by Wire Control Laws, Composite Material.
- 2001 (4+ Generation)**: Composite Controlled Flight Systems, Active Digital Avionics (Glass Cockpit).

Text boxes highlight: "On 4<sup>th</sup> January 2001 not only the Aircraft (TD1) took off." and "but also the 4<sup>th</sup> Generation Technologies".

SAEINDIA Society of Automotive Engineers INDIA logo is present. A video feed of Girish Deodhare is visible in the bottom right corner.



**Mechanical Engineering Faculty members attending session Project Management**

4:17 PM Sun 21 Feb

Zoom

End

Unmute Start Video Share Content Participants More

### What is Project Management?

- Project Management is the application of knowledge, skills, tools, and techniques to project activities to meet the project objectives
- Certain Project Management processes to be followed. Same are grouped in
  - Initiating
  - Planning
  - Execution
  - Monitoring and Controlling, and
  - Closing
- Managing products typically includes - Identifying requirements, addressing various needs, concerns, expectations of stakeholders

Participants (28)

Search

S Shrinivas Metan (Host, me)

Sanjay Mane

42\_Kasturi Mahajan

Abhishek Kshirsagar Mech-B-30

AM Abhishek Manure

k B. 57 Harshad bidarkar

B-08 Donge Jays Shankar suryakant

Invite Mute All Ask All to Unmute

4:17 PM Sun 21 Feb

Zoom

End

Unmute Start Video Share Content Participants More

### What is Project Management?

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AM Abhishek Manure

k B. 57 Harshad bidarkar

B-08 Donge Jays Shankar suryakant

Invite Mute All Ask All to Unmute

4:37 PM Sun 21 Feb

Zoom

End

Unmute Start Video Share Content Participants More

B-3braashid joined

Project Management Roadmap

4:37 PM Sun 21 Feb

Zoom

End

Unmute Start Video Share Content Participants More

### WBS – Work Breakdown Structure

- The Work Breakdown Structure is a systematic, visual approach for dividing a project into the small manageable elements or tasks required to complete it.
- ... *When you have a goal in mind, you can write down all the steps that you need to do to get there – that is a Work Breakdown Structure.*
- WBS is the way to find things you didn't realize that you needed to do.

## 2 Days Tata Technologies Training Program to Mechanical Engineering Faculty members



# 10 Days Training Program To Faculties conducted by Dassault systems




**Company: Tata Motors**

Date: 30/4/2020

# Topic: Emerging processes in Product Design & Development

4:17 PM Thu 30 Apr  
Krishna PILLAI is talking

### About the Speaker



**SANJIV S MANTRI**

**Chief Engineer  
TATA MOTORS LTD  
Total experience – 35 years**

**Work Experience**

- Delivered many projects in domestic & international market
- LEAD – VEHICLE INTEGRATION** - Design & Integration of Aggregates to meet the required style & architecture.
- Build in required Attributes viz. Ergonomics, Dynamics, & performance to meet competition. Balancing Designs, CAE, CFD, ADAMS, Validation of design & Homologation.
- Lead Chassis Design** - Design Development, Vehicle Dynamics
- Methods & Processes – Design Capability Enhancement Projects
- Lead Management Drives - Design Automation, Strategy Development, Ipr & Others
- Also Worked in : Kirloskar Oil Engines, Sealol Hindustan Ltd - Design Of Diesel Engines, Sealing & Sealing Systems

**ACHIEVEMENTS**

- Champion Team Award : Tata Motors Ltd.
- Design Recognition / Award by SHL
- Distinction of being recognised for the Patents, Copyrights, Papers, etc.
- Presentations in National & International Conferences

**Education**

- ME Design ( 1984 )
- Strategy development – Exe prog. IIM Kolkata ( 2012 )

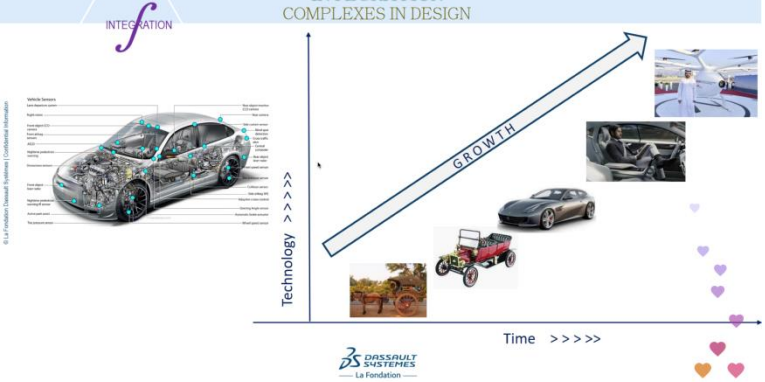
9

9.9K

4:43 PM Thu 30 Apr  
Sanjiv Mantri is talking

### Emerging Trends and Approaches in Product Design and Development

**“INTEGRATION”  
COMPLEXES IN DESIGN**



9.9K

**DASSAULT SYSTEMES**  
— La Fondation —

## CERTIFICATE OF PARTICIPATION

Awarded to  
**Chetan Papade**  
From N.K.Orchid College of Engg. & Tech.

For attending a session  
**“Emerging Processes in Product Design and Development”**

As part of Webinar Series  
To Guide Students to Select Meaningful Engineering Projects

April 30, 2020



**Hemant GADGIL**  
Executive Director  
Dassault Systemes Foundation, India

**DASSAULT SYSTEMES**  
— La Fondation —


## CERTIFICATE OF PARTICIPATION

Awarded to  
**Dr Shriniwas Metan**  
From NKOCET

For attending a session  
**“Emerging Processes in Product Design and Development”**

As part of Webinar Series  
To Guide Students to Select Meaningful Engineering Projects

April 30, 2020



**Hemant GADGIL**  
Executive Director  
Dassault Systemes Foundation, India

Company: CoE Aerospace and Defence Bangalore

Date: 07/05/2020

# Topic: Skilling Work Force of the Future – Aerospace Domain



## About the Speaker



CD BALAJI

**CD BALAJI, Distinguished Scientist**  
Chairman, Centre of Excellence in Aerospace & Defence (CeoA&D) Former Programme Director (Combat Aircraft) & Director, ADA  
Total experience – 42 years

**Work Experience**




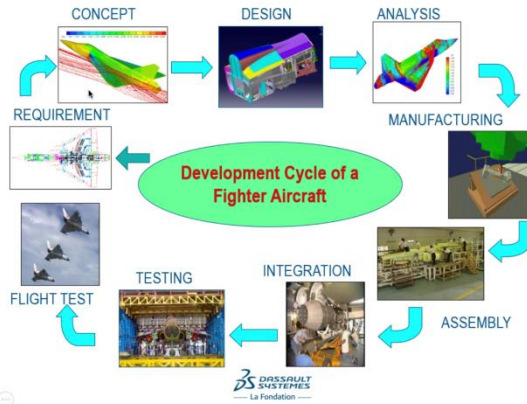
- Commissioned into the Indian Navy In Sep 1978 - Specialised in the Naval Aviation Arm
- Worked in Aeronautical Development Agency in as a Project Director in Light Combat Aircraft (LCA Navy) (Navy)
- Was Responsible for the design, development, building and flight testing of LCA(Navy) Prototypes at ADA,
- Permanent absorption to ADA and rose to the grade of a Distinguished Scientist
- Secretary ADA for over 10 years. He was appointed in the position of The Programme Director (Combat Aircraft) & Director
- Currently mentoring a Centre of Excellence in Aerospace & Defence which aims to skill enhancement of Engineering students

**ACHIEVEMENTS**

- Was Responsible for the build of the Air Force Trainer Prototypes, with the first prototype flight in Mar 2009
- Was responsible for conceptualizing and building the Shore Based Test Facility (SBTF), replicating the aircraft carrier with ski-jump for take-off and arresting gear for recovery of the aircraft

**Education**

- Mechanical Engineer – Bangalore University
- Masters Degree in Aerospace Engineering from Indian Institute of Science, Bangalore.





## Skilling "Work Force of the Future" – Aerospace Domain

**Webinar-2: 07 May 2020**

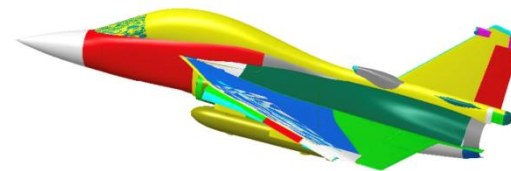
### **"To Guide Students to Select Meaningful Engineering Projects"** (La Fondation Dassault Systemes)

**Cmde. CD Balaji (Retd)**  
**Distinguished Scientist**  
**Chairman, Centre of Excellence in Aerospace & Defence**  
Former Director, Aeronautical Development Agency (ADA)

**Centre of Excellence in Aerospace & Defence (CoE A&D)**  
Govt. of Karnataka



## Numerical Master Geometry (NMG)



Stage where shape of the Aircraft gets defined:  
Used for various Simulation Activities





## CERTIFICATE OF PARTICIPATION

Awarded to

**Vaibhav Kulkarni**

From NK Orchid College of Engg. & Technology, Solapur

For attending a session

**"Skilling Work Force of the Future – Aerospace Domain"**

As part of Webinar Series

**To Guide Students to Select Meaningful Engineering Projects**

May 7, 2020



**Hemant GADGIL**  
Executive Director  
Dassault Systèmes Foundation, India

## CERTIFICATE OF PARTICIPATION

Awarded to

**Yogesh Patil**

From N.K.Orchid College of Engineering and Technology, Solapur

For attending a session

**"Skilling Work Force of the Future – Aerospace Domain"**

As part of Webinar Series

**To Guide Students to Select Meaningful Engineering Projects**

May 7, 2020



**Hemant GADGIL**  
Executive Director  
Dassault Systèmes Foundation, India

**Company: L and T**

Date: 21/5/2020


Topic: Integrated systems and innovation in Defence

Gmail 4:13 PM Thu 21 May  
Krishna PILLAI is talking

LA FONDATION DASSAULT SYSTEMES  
La Fondation

### About the Speaker

**Mr. Nandkumar Athawale**  
Vice President – Design & Engineering Centre – Defence & Aerospace  
Total experience – 36 years



**Nandkumar Athawale**

**Work Experience**

- Joined Larsen & Toubro Limited in 1984 after Post Graduation.
- First 17 years, worked as Design and Product Engineer for Process Plant Equipment. He has designed numerous equipment, which were then being designed in India for the first time, e.g. Hydrocracker Reactor, Ammonia Converter, Reformed Gas Waste heat boilers etc.
- He worked in Indonesia for brief period of 2 years, to establish Design & Engineering Centre in emerging Equipment manufacturing industry, before joining back at L&T.
- In 2001, he was moved to Business development of Defence equipment business. He seeded and developed the Radar Systems business in L&T.
- Last 19 years, he has been in Defence business leading various functions such as business development, Design & Engineering, Project Management, Partner development etc.
- Currently he is leading "Design & Engineering Centre" for Defence & Aerospace for L&T – Defence Division.

**Education**

- M. Tech. (Mechanical), IIT, Madras in year 1984

21 May 2020 COMMERCIAL IN CONFIDENCE 1

Gmail 4:17 PM Thu 21 May  
NM Athawale is talking

LA FONDATION DASSAULT SYSTEMES  
La Fondation

## INTEGRATED SYSTEMS & INNOVATIONS DEFENCE SYSTEMS

WEBINAR – LA FONDATION DASSAULT SYSTEMES




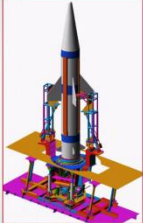
BY  
NANDKUMAR ATHAWALE – L&T DEFENCE

21 May 2020 COMMERCIAL IN CONFIDENCE 1

Gmail 4:31 PM Thu 21 May

L&T Defence

### SHIP STABILISED VERTICAL LAUNCHER




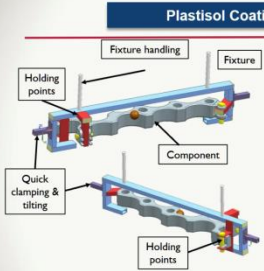
- Stabilized Mass :6 T
- Roll :+/- 10 Deg.
- Pitch :+/- 5 Deg.
- Wind Speed :70 kmph
- Error (Roll/Pitch) :Within +/- 1°

21 May 2020 COMMERCIAL IN CONFIDENCE 6

5:14 PM Thu 21 May  
NM Athawale is talking

L&T Defence

### Plastisol Coating for Cast Parts



- Uniform thickness
- No drip marks

21 May 2020 COMMERCIAL IN CONFIDENCE 38

**CERTIFICATE  
OF PARTICIPATION**

Awarded to

**satish kumar**

From NKO CET SOLAPUR

For attending a session

**"Integrated systems and innovation in Defence"**

As part of Webinar Series

**To Guide Students to Select Meaningful Engineering Projects**

May 21, 2020



**Hemant GADGIL**

Executive Director

Dassault Systemes Foundation, India

**CERTIFICATE  
OF PARTICIPATION**

Awarded to

**Mallikarjun Awate**

From N. K. ORCHID College of Engineering & Technology, Solapur.

For attending a session

**"Integrated systems and innovation in Defence"**

As part of Webinar Series

**To Guide Students to Select Meaningful Engineering Projects**

May 21, 2020



**Hemant GADGIL**

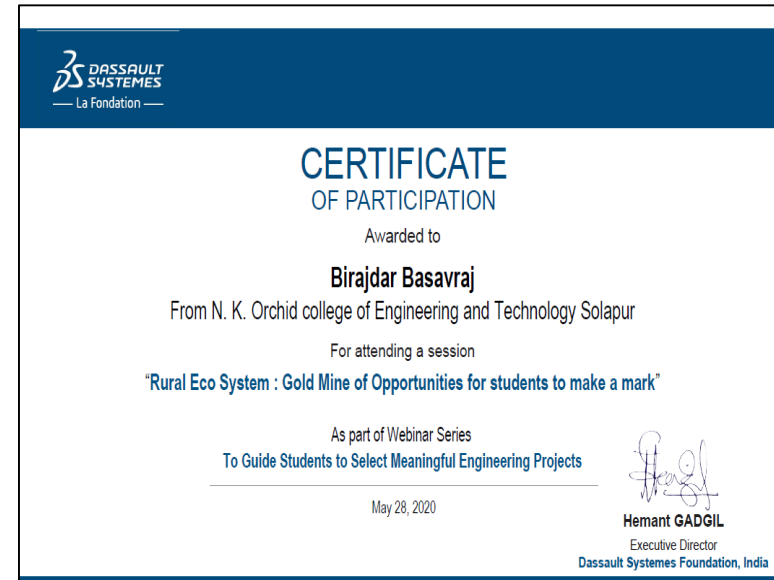
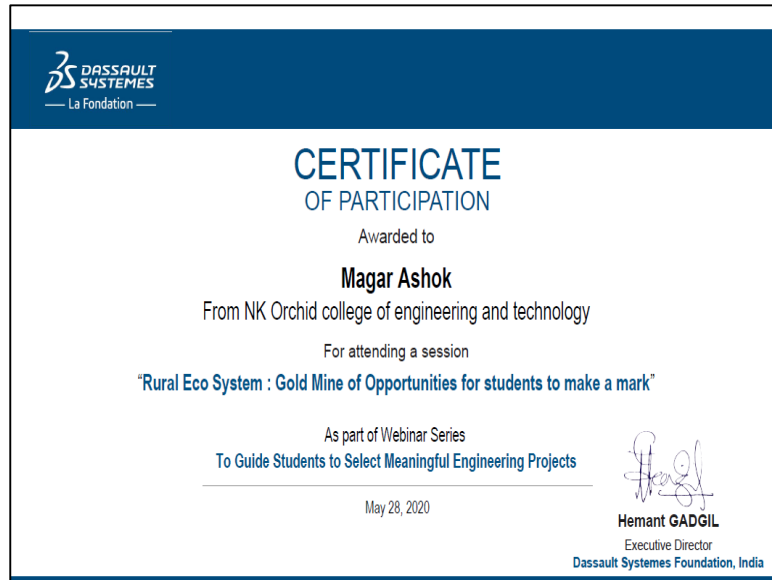
Executive Director

Dassault Systemes Foundation, India

**Company: VGYAN ASHRAM PABAL**

**Date: 28/5/2020**


**Topic: Rural Eco System : Gold mine of opportunities for students to make a mark**



**Company: Dassault Systems**

**Date: 18/06/2020**

**Topic: Launching new Product in 100 days from concepts to Manufacturing**



**CERTIFICATE  
OF PARTICIPATION**  
Awarded to  
**VIKRAM BIRANGANE**  
From NK Orchid College of Engg. & Technology  
For attending a session  
"Launching new Product in 100 days from concepts to Manufacturing"  
As part of Webinar Series  
To Guide Students to Select Meaningful Engineering Projects  
June 18, 2020  
  
**Hemant GADGIL**  
Executive Director  
Dassault Systemes Foundation, India



**CERTIFICATE  
OF PARTICIPATION**  
Awarded to  
**Dr. Shrinivas Metan**  
From NKOET  
For attending a session  
"Launching new Product in 100 days from concepts to Manufacturing"  
As part of Webinar Series  
To Guide Students to Select Meaningful Engineering Projects  
June 18, 2020  
  
**Hemant GADGIL**  
Executive Director  
Dassault Systemes Foundation, India

**Company: Dassault Systems**

**Date: 04/06/2020**

**Topic: Transforming infrastructure industry opportunity for students of all streams**



**CERTIFICATE  
OF PARTICIPATION**  
Awarded to  
**Awate Mallikarjun**  
From N. K. ORCHID College of Engineering & Technology, Solapur.  
For attending a session  
**Transforming Infrastructure Industry- Opportunity for students of all streams**  
As part of Webinar Series  
**To Guide Students to Select Meaningful Engineering Projects**  
June 4, 2020  
  
**Hemant GADGIL**  
Executive Director  
Dassault Systemes Foundation, India



**CERTIFICATE  
OF PARTICIPATION**  
Awarded to  
**Patil Dr. Nitinchand**  
From Nk orchid college of engineering and technology, solapur  
For attending a session  
**Transforming Infrastructure Industry- Opportunity for students of all streams**  
As part of Webinar Series  
**To Guide Students to Select Meaningful Engineering Projects**  
June 4, 2020  
  
**Hemant GADGIL**  
Executive Director  
Dassault Systemes Foundation, India

**Company: Advik Hitech Pvt Ltd Pune**

**Date: 09-05-2020**

The image is a screenshot of a Zoom meeting. At the top, the status bar shows 'Gmail 11:21 AM Sat 9 May', 'Shivsharan Patil left', and 'LTE 98%' with a battery icon. The Zoom interface includes a 'Leave' button, the 'Zoom' logo, and icons for 'Unmute', 'Start Video', 'Share Content', 'Participants', and 'More'. The main content is a slide with the title 'TODAY WE WILL BE COVERING !!!!!' and the 'ADVIK Passionately Innovative' logo. The slide features two columns of topics connected by downward arrows. The left column contains: 'What is mindset ?' (yellow box), 'Types of Mindsets' (orange box), and '7 Mindsets' (green box). The right column contains: 'Can we change the Mindsets ?' (blue box), 'Recommended Book on Mindset' (light green box), and 'Q & A' (light blue box). At the bottom, there is a black bar with a pencil icon and the text 'Vishal Bhang's screen' on the left, and a camera icon on the right.

**Company : Eaton India Innovation Centre**

**Date: 12-05-2020**

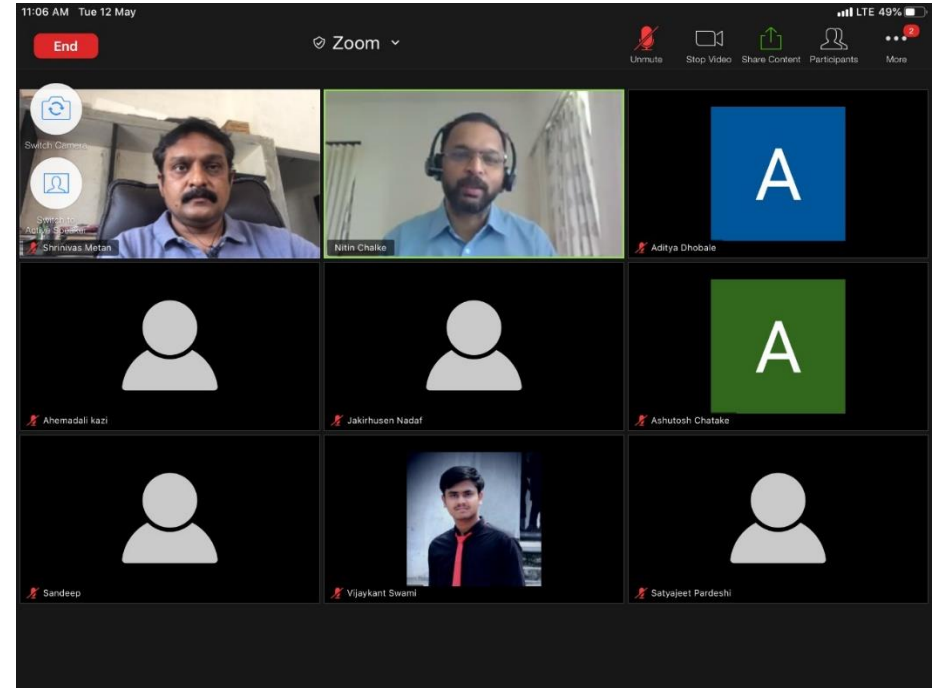


**Hearty Welcome**



**Mr. Nitin Chalke**

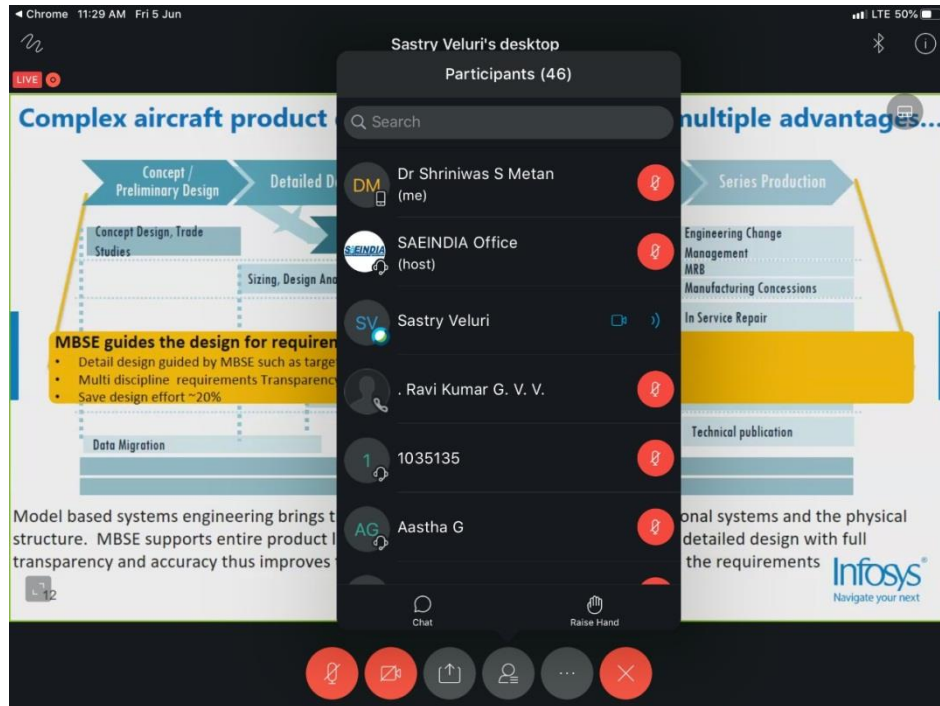
President – Hydraulics and Vehicle,  
Asia Pacific, Eaton





**Company: SAE India Western Section**

**Date: 05-06-2020**



Company: Infosys

Date: 05-06-2020

11:47 AM Fri 5 Jun Sastry Veluri's desktop

LIVE Streaming to Facebook Live

### Fuselage – MBSE approach and elements

Category	Requirements	Design and simulation	Materials and manufacturing	Testing and validation	Maintenance
<b>Skin, stringers and longerons</b>	<ul style="list-style-type: none"><li>Load and safety factors</li><li>Limit load without permanent deformation</li><li>Approved materials</li><li>Protection for weathering and corrosion</li><li>Damage tolerance and fatigue</li><li>Decompression</li></ul>	<ul style="list-style-type: none"><li>Skin - Pressure and shear</li><li>Longerons bending</li><li>Stringers axial loads and skin stabilization</li><li>Skin panel buckling</li><li>Fail-safe design</li><li>Least number of joints</li><li>Minimum weight</li><li>Fatigue evaluation</li><li>Concentrated loads</li></ul>	<ul style="list-style-type: none"><li>CFC prepreg</li><li>Automated fiber placement-CTLM</li><li>Co-cured and co-bonded</li></ul>	<ul style="list-style-type: none"><li>Strength tests</li><li>Coupons</li><li>Elements</li><li>Subcomponents</li><li>Components</li><li>Assembly tests</li></ul>	<ul style="list-style-type: none"><li>Periodic inspection</li><li>Maintenance as per schedule</li><li>Replace worn-out, failed or broken components due to operations</li><li>Define new maintenance schedules</li></ul>
<b>Frames and floor grid</b>	<ul style="list-style-type: none"><li>Safety against opening during flight</li><li>No inadvertent manual operations</li><li>Emergency exit type, location and number FAR 25.807</li><li>Emergency exit access FAR 25.813</li></ul>	<ul style="list-style-type: none"><li>Interchangeability</li><li>Wind load while opening</li><li>Flight load and pressure (ultimate load)</li><li>Design for ultimate factor</li></ul>	<ul style="list-style-type: none"><li>CFC</li><li>Aluminum</li><li>Stops/hinges</li></ul>	<ul style="list-style-type: none"><li>Complete airframe test</li><li>Stiffness test</li><li>Ground vibration tests</li><li>Structural coupling tests</li><li>Notch filter design</li></ul>	<ul style="list-style-type: none"><li>Periodic inspection as per schedule</li><li>Replacement of movable parts and hinges</li></ul>
<b>Doors and windows</b>	<ul style="list-style-type: none"><li>Transfer concentrated loads</li><li>Safe dissipation of load</li><li>Strength and fatigue requirements</li></ul>	<ul style="list-style-type: none"><li>Selection of type of attachment</li><li>Major bulk heads</li><li>Load distribution to shell</li><li>Structural deflection and</li></ul>	<ul style="list-style-type: none"><li>Aluminum</li><li>Titanium</li></ul>	<ul style="list-style-type: none"><li>Optical, electrical, environmental, and system interface tests</li><li>Strength test along with aircraft pressurization</li></ul>	<ul style="list-style-type: none"><li>Periodic inspection</li><li>NDT inspection</li><li>Replace after designed life</li></ul>
<b>Major attachments</b>	<ul style="list-style-type: none"><li>Clear vision</li><li>Splitter-proof inner pane</li><li>Withstand bird impact</li><li>Cyclic and pressure loads</li></ul>	<ul style="list-style-type: none"><li>Minimum vision after damage</li><li>Clear vision</li><li>Glare and reflection avoidance</li><li>Pressure and aerodynamic loads</li></ul>	<ul style="list-style-type: none"><li>Strengthened glass</li><li>Stretched acrylic</li><li>Polycarbonate</li><li>Polyimide/Isolytic</li><li>Gold iridium tin oxide</li></ul>	<ul style="list-style-type: none"><li>Flammability tests</li><li>Functionality tests</li><li>Impact tests</li><li>Evacuation tests</li></ul>	<ul style="list-style-type: none"><li>Electrical and environmental system maintenance</li><li>Cleaning</li><li>Replacement of transparent glass when defects are beyond repair</li></ul>
<b>Wind screens</b>	<ul style="list-style-type: none"><li>Protection from harmful impact</li><li>Fire, smoke and toxic req</li><li>Slow fire propagation</li><li>Maximizing comfort and transport capacity</li></ul>	<ul style="list-style-type: none"><li>Aluminum</li><li>Fabric</li><li>Fire-resistant leather</li></ul>	<ul style="list-style-type: none"><li>Aluminum</li><li>Fabric</li><li>Fire-resistant leather</li></ul>		
<b>Interiors</b>					

Infosys Navigate your next

11:29 AM Fri 5 Jun Sastry Veluri's desktop

LIVE Participants (46)

### Complex aircraft product

multiple advantages...

Series Production

Engineering Change Management MRB

Manufacturing Concessions

In Service Repair

Technical publication

onal systems and the physical detailed design with full the requirements

Infosys Navigate your next

Model based systems engineering brings t structure. MBSE supports entire product l transparency and accuracy thus improves

Infosys

Participants (46)

- Dr Shrinivas S Metan (me)
- SAEINDIA Office (host)
- Sastry Veluri
- Ravi Kumar G. V. V.
- 1035135
- Aastha G

Chat Raise Hand


# Company: Dassault Systemes Pune

Date: 30-04-2020

4:19 PM Thu 30 Apr Sanjiv Mantri is talking

ENTERING GLOBAL B-UNIVERSITY

- ★ What I have Achieved in College
  - ★ Best individual
  - ★ Little team work – in projects, sports
  - ★ Proved to Work on defined problem
- ★ Requirement in Industry :
  - ★ Team Player – Best Individual
    - ★ Functional expertise
  - ★ Leader – Extracts best from team
  - ★ Deliver results when problem definition is hazy
  - ★ Expanding boundaries, Futuristic vision
  - ★ Conflict management
  - ★ Be A Business Partner not a mere employee
- ★ Role Clarity : Within Overlapping functions & Transparent boundaries
- ★ Understanding sensitivities of other functions
- ★ Strategic Thinking - Looking into future



The diagram shows three overlapping circles: 'Doing What You're Good at' (blue), 'Doing What Pays Well' (red), and 'Doing What You Love' (green). The central intersection is labeled 'Success'. Other intersections contain 'Skill & Talent', 'Ability & Creativity', and 'Happy & Proud'. The name 'Laimoon' is at the bottom right.

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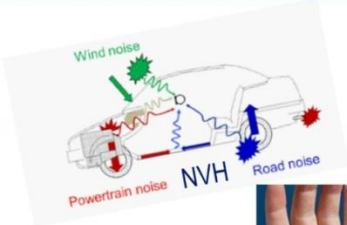
DASSAULT SYSTEMES  
— La Fondation —

11K

4:55 PM Thu 30 Apr Sanjiv Mantri is talking


ABSTRACT DESIGN - ATTRIBUTES

- ▶ DESIGN FOR
  - ▷ APPEARANCE
  - ▷ SOUND QUALITY
  - ▷ NVH
  - ▷ HAPTICS
  - ▷ SMELL
  - ▷ WEIGHT
  - ▷ OPTIMISATION
  - ▷ DESIGN VARIATION ANALYSIS



A diagram of a car chassis with arrows indicating noise sources: 'Wind noise' (green), 'Powertrain noise' (red), and 'Road noise' (blue). The acronym 'NVH' is prominently displayed.

ABSTRACT ATTRIBUTES, UNEXPECTED IMPROVEMENTS GIVES DELIGHT.



Three images showing haptic feedback: a finger on a touch screen, a hand with a sensor, and hands being touched. The text 'Artificial skin could help rehabilitati...' is partially visible.

HAPTICS

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DASSAULT SYSTEMES  
— La Fondation —

23.7K

**Company: Indian Oil**

**Date: 03-05-2020**

**R&D IndianOil**

## Hydrogen in Refineries

**Status (2018) -**  
 Globally refineries 38 Million tons H<sub>2</sub>/yr (33% of Global H<sub>2</sub> demand)  
**[Indian Refineries = ~2.13 MTPA]**  
**Main Pathways:**  
 On-site SMR / Naphtha cracking (by-product) / Merchant Supply / Coal Gasification (China)

**Projections - H<sub>2</sub> in Refineries (Global)**

In line with current trends

In line with the Paris Agreement

Legend: Refinery by-product, On-purpose supply (existing refineries), On-purpose supply (new)

Sachin Chugh

**R&D IndianOil**

## Fuel Cells - Principle and Characteristics

- PEM Fuel Cell has better performance characteristics
- Low starting time
- Better transient response

- FCs are characterized by operating temp / electrolyte
- SOFCs / MCFCs – Stationary Continuous Power

**500,000 units/year**

- Bipolar Plates
- Membranes
- Catalyst Ink & Application
- Gas Diffusion Layer
- MEA/Gasket
- Other

▪ **Daimler** has cut the **platinum** loading by 90 %, which is equivalent to new **fuel cell Mercedes** to catalytic converter level.  
 ▪ **Internal combustion engine car** uses between 2 to 5 g of **platinum** in a catalytic converter

Sachin Chugh

# Company: Solid Works

Date: 05-05-2020



## Summary of Challenges without Data Management

- ▶ Backup and Security
- ▶ Finding the Right Documents
- ▶ Version Control
- ▶ Change Management
- ▶ Scalability and Flexibility
- ▶ Multi-user Collaboration
- ▶ Multiple Databases
- ▶ Management across Project Lifecycle
- ▶ Compliance with various Standards
- ▶ Reusing existing and standard Designs

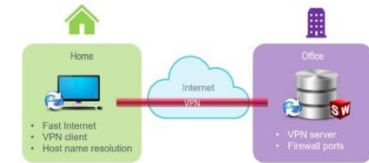


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## Access data remotely during Lockdown

- ▶ VPN is required to connect PDM with remote machine.
- ▶ Access to Engineering Data remotely.
- ▶ Data is transferred from Server to Client machine using internet via secured VPN.
- ▶ All stake holder have access to the common data.
- ▶ Collaborate while working remotely.



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# Company : La Fondation Dassault Systems

Date: 05-05-2020

5:50 PM Tue 5 May  
Gmail  
LTE 53%

Slide Show

## Purpose

To build databases of industry-grade 3D CAD models (parts and assemblies)


- Emulate CAD databases of real companies from the manufacturing industry
- Follow industry processes, standards and best-practices
- Use xDesign, xShape, SOLIDWORKS, CATIA V5(if access to other apps not available) and 3DEXPERIENCE Platform for overall project.

To provide industry oriented internship opportunities to students.

- To provide an enriching learning experience to students
- Chance to get acquainted with 3D digital design tools
- Chance to learn and understand industry processes, standards and best-practices

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2



6:13 PM Tue 5 May  
Gmail  
Makarand Apte is talking  
LTE 48%

Slide Show

## Lifts




Attendees

- Dr. Sanjay Lakade
- Jayesh Pawar
- Makarand Apte
- Manish Mittha
- Nitin Atak
- Prasad Kulkarni
- Principal NKOCET
- Sanjay Matekar
- Vinay Tigadi

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9



**Company: Mastersoft ERP Solutions Pvt**

**Date:20-05-2020**

## *Certificate Of Participation*

This is Certified that Dr./Mr./Ms./Mrs. Mallikarjun Awate

Institute Name - N. K. ORCHID COLLEGE OF ENGINEERING & TECHNOLOGY, SOLAPUR.

Participated in an online webinar session on "CCMS-Centralized Campus Management System ERP and ICT best practices in institute" conducted by MasterSoft ERP Solutions Pvt. Ltd. Nagpur. On 20/05/2020



**Mustak Ahmed – Vice President Sales &  
Marketing For MasterSoft ERP Solutions  
M - 9021148419**



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