B.S. Abdur Rahman Crescent Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956
GST Road, Vandalur, Chennai 600 048

Report on the Online Workshop
"Design now workshop using Autodesk Fusion 360"
Presented by Mr. Mohammed Shereef,
Deputy Manager - Design Team, Training & Research
and
Murugavel V
Relationship Manager, ICT ACADEMY, Chennai.

On *October 27th, 2021| 10.00 AM to 1:00 PM*

Organized by

ICT ACADEMY (An Initiative of Government of India), State Government and Industry.

Convenor **Dr. H. Siddhi Jailani,** **Associate Professor and Head** **Department of Mechanical Engineering,** **BSA Crescent Institute of Science and Technology** **Coordinator** **Mr.John Mathew, Placement coordinator, IIPC.** **Dr.K.Mohamed Bak, Asst Professor** **Department of Mechanical Engineering** **School of Mechanical Sciences,** **BSA Crescent Institute of Science and Technology**	**Speaker:** **Mr. Mohammed Shereef,** **Deputy Manager - Design Team, Training & Research** **Murugavel V** **Relationship Manager** **ICT ACADEMY | An Initiative of Government of India, State Government and Industry** **ELCOT Complex, 2-7 Developed Plots, Industrial Estate,** **Perungudi, Chennai - 600 096, Tamil Nadu, India**

PREAMBLE

The online workshop on “Design now workshop using Autodesk Fusion 360” was organized by ICT ACADEMY and Department of Mechanical Engineering, BSAR Crescent Institute of Science and Technology. The presentation was delivered by Mr. Mohammed Shereef, Deputy Manager - Design Team, Training & Research and Mr.Murugavel.V, Relationship Manager, ICT academy, Chennai.

Around 70 students from Mechanical, department, and faculty members participated in the workshop. The workshop emphasized on the importance of **CONVERGENCE OF DESIGN, ENGINEERING AND MANUFACTURING INTO A PRODUCT INNOVATION PLANNING.**

The following points were described during the workshop

- Basic Introduction about the Autodesk software was given.
- Opportunity for students to showcase their design skills by solving design challenges posted by industry.
- Guided on how to create Autodesk student account, so that student can download any Autodesk software.
- Verification on Autodesk software is done with the instructions from the mentor.
- Basic features of Fusion 360 were shown and explained their functionalities.
- Connect industry and academia to provide students with an opportunity to be mentored by industry experts.
- The goal is to enable autonomous decision-making processes, monitor assets and processes in real-time, and enable equally real-time connected value creation networks through early involvement of stakeholders, and vertical and horizontal integration.
- Exposure towards use of advanced technology/design software to make design more feasible and faster.

K.Mohamed Bak

Coordinator

HOD (Mech)

Attendees

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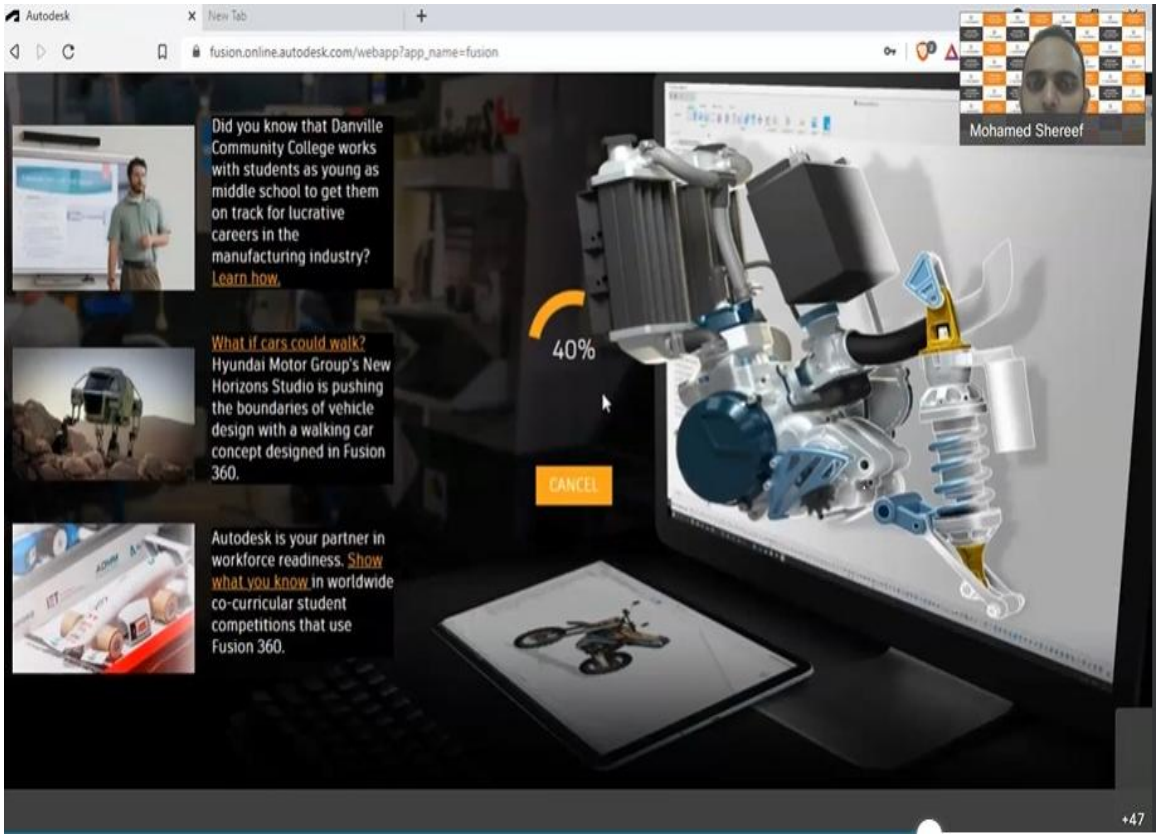
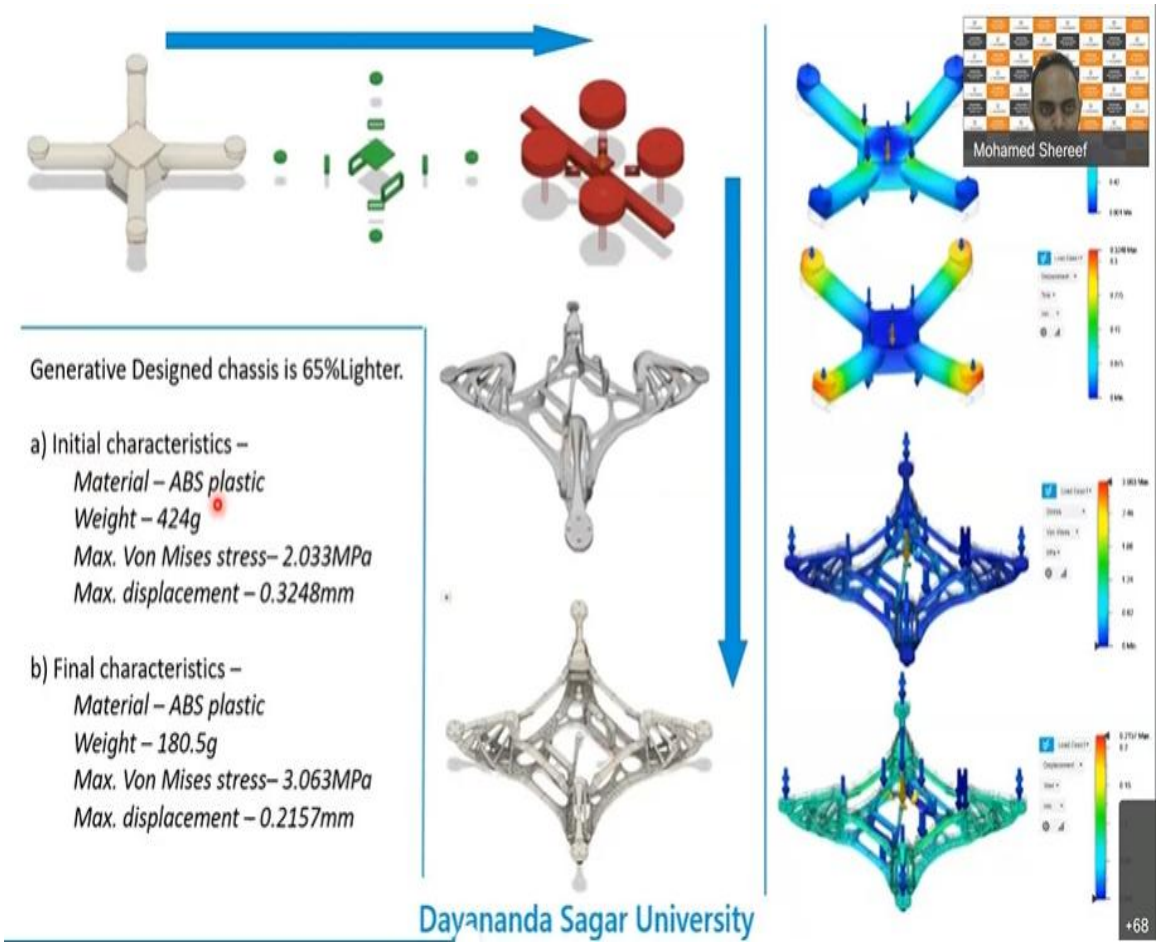
ICTACADEMY
AUTODESK
Design Now Workshop
AUTODESK
FUSION 360
Date: 27 October 2021
Hosted by
B.S. Abdur Rahman
Crescent
Institute of Science & Technology
Mohamed Shereef

Some sample presentations:

India Design Week 2022

- IDW 2022 is Product Design challenge
- Fusion 360 Software is a open source for the student community
- Objective of this Design Competition
  - Opportunity for students to showcase their design skills by solving Design Challenges posted by Industry.
  - Exposure towards use of advanced technology/design software to make designs more feasible and faster.
  - Connect Industry and Academia to provide students with an opportunity to be mentored by Industry experts.


Autodesk
New Tab
fusion.online.autodesk.com/webapp?app_name=fusion
Mohamed Shereef
Did you know that Danville Community College works with students as young as middle school to get them on track for lucrative careers in the manufacturing industry? Learn how.
What if cars could walk? Hyundai Motor Group's New Horizons Studio is pushing the boundaries of vehicle design with a walking car concept designed in Fusion 360.
Autodesk is your partner in workforce readiness. Show what you know in worldwide co-curricular student competitions that use Fusion 360.
40%
CANCEL
+47


Mohamed Shereef
Generative Designed chassis is 65%Lighter.
a) Initial characteristics –
Material – ABS plastic
Weight – 424g
Max. Von Mises stress– 2.033MPa
Max. displacement – 0.3248mm
b) Final characteristics –
Material – ABS plastic
Weight – 180.5g
Max. Von Mises stress– 3.063MPa
Max. displacement – 0.2157mm
Dayananda Sagar University
+68

Fusion 360 - Integrated CAD, CAE, and CAM

Convergence of design, engineering, and manufacturing into a PRODUCT INNOVATION PL

Design	Engineer & Simulate	CAM
Iterate on design ideas with generative design and sculpting tools to explore form, and with modelling tools to create finishing features to assemble	Test fit and motion, perform simulations, make photorealistic renderings and animations	Create toolpaths to machine your components or use the 3D printing workflow to create a prototype

Collaborate

+71