

1. Title and date of the Event
Two-day Faculty workshop on “Future of Making Things with Autodesk Fusion 360”
2. Coordinators Details: **M.Maheswaran & Mr. G. Kirubakaran, Assistant Professors**
3. One Page write up program objectives & Benefits.

(i) Star Performer Faculty Name: **Mr.Sadik Basha, M/s USAM Technologies Ltd.**

(ii) Star performer Participant Name: **Dr. M. Gajendiran Assistant Professor**, email id: **mgaja@svce.ac.in**, Phone number of student: **9884546070**

(iii) No.of Internal/external Students participated:

Total Students: , Internal: Nil, External : Nil

No. of Internal/external Faculties participated: Total: **18** , Internal: **18**, External: **0**

Total No of Participants: **18**



Day 1 Photograph with Geotag of the faculty members practicing Fusion 360 software



Day 2 Photograph of Mr.Sadik Basha explaining about Simulation in Fusion 360 software

Two-day Faculty workshop on “Future of Making Things with Autodesk Fusion 360” – Detailed Report

A comprehensive workshop on modelling and design techniques was successfully conducted, with a total of 18 faculty members participating, including 4 instructors. The training was conducted by Mr. Sadik Basha, a trainer from M/s USAM Technologies Pvt Ltd, which is a partner of Autodesk. Mr. Basha's expertise and affiliation with a leading technology company ensured that the participants received high-quality instruction aligned with industry standards. The workshop covered essential topics such as the Basics of Modelling, advanced subjects like Generative Design and Simulation, as well as the fundamentals of Computer-Aided Manufacturing (CAM). The sessions were highly engaging and informative, providing attendees with valuable insights into the latest developments in the field of design and manufacturing.

The workshop saw active participation, though attendance fluctuated on the second day due to faculty commitments to other college-level programs. Despite this, the quality and depth of the workshop remained unaffected, ensuring that those who attended gained substantial knowledge and practical skills.

In response to the positive feedback, a proposal was made to organize a more extensive five-day program focused on 3D design. This program aims to include faculty members from non-design fields, promoting interdisciplinary learning and collaboration. The proposed program would be jointly managed by our team and USAM, leveraging our combined expertise to provide a robust educational experience.

The workshop underscored the importance of continuous learning and skill enhancement, highlighting the potential for further professional development programs in the future.

Topics Covered

The following topics were covered in the workshop as follows:

Date	Topic	Details
24/07/2023 Forenoon	Basics of Modelling	Introduction to Fusion 360, user interface, basic sketching, creating and modifying 3D models, parametric design principles.
24/07/2023 Afternoon	Generative Design	Exploring generative design in Fusion 360, setting up design criteria, running simulations, interpreting results, and refining designs.
25/07/2023 Forenoon	Simulation	Utilizing Fusion 360 for simulation, setting up static and dynamic analyses, interpreting stress and displacement results, optimizing designs for strength and weight.
25/07/2023 Afternoon	Basics of CAM	Introduction to Fusion 360 CAM workspace, creating toolpaths, understanding different machining operations, simulating machining processes, and generating G-code.

FN Session – 9.00 AM – 12.00 Noon with tea break for 15 Minutes,

AN Session - 12.45 PM – 3.15 PM with a tea break for 15 Minutes

The training session, led by Mr. Sadik Basha of M/s USAM Technologies Pvt Ltd, an Autodesk partner, exemplified excellence in instructional delivery. Mr. Basha's affiliation with a prominent technology firm ensured participants received top-tier instruction, firmly rooted in current industry practices and standards. His expertise not only enriched the learning experience but also provided invaluable insights, equipping attendees with practical knowledge essential for their professional growth and development.

List of Participants attended the workshop

S.No	Staff Name	Mobile Number	Email ID
1	Mr.J.Sivaramapandian	9786946941	sivaramapandian@svce.ac.in
2	Mr A.Baskaran	8825703196	abaskar@gmail.com
3	Mr. RamanjaneyuluKolla	9884693088	ramanjaneyulu@svce.ac.in
4	Mr G Kirubakaran	8903626901	kirubakaran@svce.ac.in
5	Mr. M. Nishal	9677120751	nishal@svce.ac.in
6	Mr. A. Ranjith Raj	9843333579	ranjithraj@svce.ac.in
7	Mr Dinesh kumar	9360200779	dineshkumark@svce.ac.in
8	Dr.S.Muniraj	9994042052	muniraj@svce.ac.in
9	Dr. S.Arumugam	9444763422	arumugam@svce.ac.in
10	Dr. U. Magarajan	9843236232	magarajan@svce.ac.in
11	Mr Mohan A	9566115653	Mandark.mohan@gmail.com
12	Dr.M.Gajendiran	9884546070	mgaja@svce.ac.in
13	Mr.C.Gangadharan	6374577870	cganga@svce.ac.in
14	Dr. V. Sridharan	9790567576	sridharan@svce.ac.in
15	Dr. S. Ponnuvel	8939329433	ponnuvel@svce.ac.in
16	Dr. A. Saravanan	9488482091	saravanana@svce.ac.in
17	Mr. M. Maheswaran	9894144658	maheswaran@svce.ac.in
18	Mr.G.Rameshkannan	9843093660	rameshkannan@svce.ac.in

Sample Certificate



CERTIFICATE OF COMPLETION

CONGRATULATIONS!

You have successfully completed an Autodesk® Authorized Training Center® course specifically designed to satisfy your training requirements. Authorized Training Center instructors deliver quality-learning experiences with courses related to Autodesk products utilizing relevant content and comprehensive courseware. Autodesk's vision is to help people imagine, design, and create a better world.

Certificate No. **AP0407097465415256897**

GAJENDIRAN MAHADEVAN
NAME

FUSION 360 WORKSHOP
COURSE TITLE

FUSION 360 NEW
PRODUCT

MAHESH M
INSTRUCTOR

25-JULY-2023
COURSE DATE

9-16 HOURS
COURSE DURATION

USAM TECHNOLOGY SOL. PVT. LTD
AUTODESK AUTHORIZED TRAINING CENTER

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Certificate No. **AP0407097094875017083**

KIRUBAKARAN G
NAME

WORKSHOP ON FUSION 360
COURSE TITLE

FUSION 360 NEW
PRODUCT

MAHESH M
INSTRUCTOR

20-SEPTEMBER-2022
COURSE DATE

9-16 HOURS
COURSE DURATION

USAM TECHNOLOGY SOL. PVT. LTD
AUTODESK AUTHORIZED TRAINING CENTER

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AUTODESK
Authorized Training Center

Two-day Faculty workshop on “Future of Making Things with Autodesk Fusion 360” on 24th and 25th July 2023

4 messages

MAHESWARAN M MEC <maheswaran@svce.ac.in>
To: Hod Mech <hodme@svce.ac.in>
Cc: PREM ANANTH M MEC <premananth@svce.ac.in>

Fri, Jul 21, 2023 at 11:34 AM

Dear Professor,
Kindly forward this mail to Mechanical and Automobile faculty members and Instructors

Dear Sir,

It is proposed to conduct a free training session for Two days in Autodesk Fusion 360 software under the Topic , “**Future of Making Things with Autodesk Fusion 360**” . Autodesk Fusion 360 is a new trending software that enables the user to model, Analyse and generate Manufacturing codes in a Cloud-based environment.

Topics Covered in Workshop: Attractive CAD Features, High Speed Machining (CAM) features, Generative Design, Simulation , Electronic PCB Design

Venue : CAD lab, Mechanical Engineering Department

Faculty Having Laptop may bring their laptop with Fusion 360 installed. The details of Installation of the software is attached with this mail.

The Workshop is for two days - 24th July 2023 and 25th July 2023 from 9:30 AM to 2 PM.

I request the faculty members and Instructors to register for the workshop at the link given:
<https://forms.gle/5pLfvXD5YKkckicE6>

Thank You....

Maheswaran M,
Assistant Professor,
Department of Mechanical Engineering,
Sri Venkateswara College of Engineering, Pennalur

 **Educator - Account Creation Guide and Fusion Access .docx**
7499K

Hod Mech <hodme@svce.ac.in>
To: Mechanical Engineering-Teaching Staff <me@svce.ac.in>

Sun, Jul 23, 2023 at 10:39 AM

[Quoted text hidden]

 **Educator - Account Creation Guide and Fusion Access .docx**
7499K

Hod Mech <hodme@svce.ac.in>
To: MAHESWARAN M MEC <maheswaran@svce.ac.in>

Tue, Jul 25, 2023 at 12:12 PM

How this work shop is going

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With Regards,

Dr. S. Ramesh babu

Professor and Head

Department of Mechanical Engineering
Sri Venkateswara College of Engineering

No.1, Pennalur, Irungattukottai Post,

Sriperumbudur Taluk. - 602 117.

Ph.: +91-44-2715 2000 Ext.: 400

Mobile No.: +91-99624 86928

[Quoted text hidden]

MAHESWARAN M MEC <maheswaran@svce.ac.in>

Wed, Jul 26, 2023 at 7:20 AM

To: Hod Mech <hodme@svce.ac.in>

Professor,

The workshop was good .

Around 18 faculty including 4 instructors attended the program.

He taught about Basics of Modelling, and advanced topic like Generative design and Simulation. He also taught basics of CAM.

Yesterday alone few faculty attended since they were occupied by other two college level programs.

We also insisted a quotation for conducting 5 day program (mutually handled by us and USAM) on 3D design for faculty members other than design field.

Thank you

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